In the Specification:

Please amend the specification as shown.

Please amend the paragraph on page 18, lines 6-27, as follows:

In another embodiment of the invention, said nucleotides are linked to each other by means of a phosphorothioate group, such as all nucleotides being linked to each other by means of a phosphorothioate group. An interesting embodiment of the invention is directed to compounds of SEQ NO 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, and 144 wherein each linkage group within each compound is a phosphorothioate group. Such modifications is denoted by the subscript S. Alternatively stated, one aspect of the invention is directed to compounds of SEQ NO ~~2_A, 3_A, 4_A, 5_A, 6_S, 7_S, 8_S, 9_A, 10_A, 11_A, 12_A, 13_A, 14_A, 15_A, 16_A, 17_A, 18_A, 19_A, 20_A, 21_A, 22_A, 23_A, 24_A, 25_A, 26_A, 27_A, 28_A, 29_A, 30_A, 31_A, 32_A, 33_A, 34_A, 35_A, 36_A, 37_S, 38_A, 39_A, 40_A, 41_A, 42_A, 43_A, 44_A, 45_A, 46_A, 47_A, 48_A, 49_A, 50_A, 51_A, 52_A, 53_A, 54_A, 55_A, 56_A, 57_A, 58_A, 59_A, 60_A, 61_A, 62_A, 63_A, 64_A, 65_A, 66_A, 67_A, 68_A, 69_A, 70_A, 71_A, 72_A, 73_A, 74_A, 75_A, 76_A, 77_A, 78_A, 79_A, 80_A, 81_A, 82_A, 83_A, 84_A, 85_A, 86_A, 87_A, 88_A, 89_A, 90_A, 91_A, 92_A, 93_A, 94_A, 95_A, 96_A, 97_A, 98_A, 99_A, 100_A, 101_A, 102_A, 103_A, 104_A, 105_A, 106_A, 107_A, 108_A, 109_A, 101_A, 102_A, 103_A, 104_A, 105_A, 106_A, 107_A, 108_A, 109_A, 110_A, 111_A, 112_A, 113_A, 114_A, 115_A, 116_A, 117_A, 118_A, 119_A, 120_A, 121_A, 122_A, 123_A, 124_A, 125_A, 126_A, 127_A, 128_A, 129_A, 130_A, 131_A, 132_A, 133_A, 134_A, 135_A, 136_A, 137_A, 138_A, 139_A, 140_A, 141_A, 142_A, 143_A, and 144_A~~ **147, 151, 155, 159, 163, 167, 171, 175, 179, 183, 187, 191, 195, 199, 204, 208, 212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256, 260, 264, 268, 272, 276, 280, 284, 288, 292, 296, 300, 304, 308, 312, 316, 320, 324, 328, 332, 336, 340, 344, 348, 352,**

356, 360, 364, 368, 372, 376, 380, 384, 388, 392, 396, 400, 404, 408, 412, 416, 420, 424,

428, 432, 436, 440, 444, 448, 452, 456, 460, 464, 468, 472, 476, 480, 484, 488, 492, 496,

500, 504, 508, 512, 516, 520, 524, 528, 532, 536, 540, 544, 548, 552, 556, 560, 564, 568,

572, 576, 580, 584, 588, 592, 596, 600, 604, 608, 612, 616, 620, 624, 628, 632, 636, 640,

644, 648, 652, 656, 660, 664, 668, 672, 676, 680, 684, 688, 692, 696, 700, 704, 708, 712 and

716.

Please amend the paragraph on page 18, lines 29-30, as follows:

A preferred subset of embodiments of the invention are compounds comprising sequences of
the ~~formula 2$_A$, 4$_A$, 6$_A$, 9$_A$, 15$_A$, 118$_A$, 120$_A$, 123$_A$, 128$_A$, 129$_A$, and 131$_A$~~SEQ ID NOS 147,
155, 163, 175, 199, 612, 620, 632, 652, 656 and 664.

Please amend the paragraph on page 18, line 32, to page 19, line 2, as follows:

A further aspect of the invention is directed to compounds of SEQ NO~~S 2$_B$, 3$_B$, 4$_B$, 5$_B$, 6$_S$, 7$_S$,~~

~~8$_B$, 9$_B$, 10$_B$, 11$_B$, 12$_B$, 13$_B$, 14$_B$, 15$_B$, 16$_B$, 17$_B$, 18$_B$, 19$_B$, 20$_B$, 21$_B$, 22$_B$, 23$_B$, 24$_B$, 25$_B$, 26$_B$,~~

~~27$_B$, 28$_B$, 29$_B$, 30$_B$, 31$_B$, 32$_B$, 33$_B$, 34$_B$, 35$_B$, 36$_B$, 37$_S$, 38$_B$, 39$_B$, 40$_B$, 41$_B$, 42$_B$, 43$_B$, 44$_B$, 45$_B$,~~

~~46$_B$, 47$_B$, 48$_B$, 49$_B$, 50$_B$, 51$_B$, 52$_B$, 53$_B$, 54$_B$, 55$_B$, 56$_B$, 57$_B$, 58$_B$, 59$_B$, 60$_B$, 61$_B$, 62$_B$, 63$_B$, 64$_B$,~~

~~65$_B$, 66$_B$, 67$_B$, 68$_B$, 69$_B$, 70$_B$, 71$_B$, 72$_B$, 73$_B$, 74$_B$, 75$_B$, 76$_B$, 77$_B$, 78$_B$, 79$_B$, 80$_B$, 81$_B$, 82$_B$, 83$_B$,~~

~~84$_B$, 85$_B$, 86$_B$, 87$_B$, 88$_B$, 89$_B$, 90$_B$, 91$_B$, 92$_B$, 93$_B$, 94$_B$, 95$_B$, 96$_B$, 97$_B$, 98$_B$, 99$_B$, 100$_B$, 101$_B$,~~

~~102$_B$, 103$_B$, 104$_B$, 105$_B$, 106$_B$, 107$_B$, 108$_B$, 109$_B$, 101$_B$, 102$_B$, 103$_B$, 104$_B$, 105$_B$, 106$_B$, 107$_B$,~~

~~108$_B$, 109$_B$, 110$_B$, 111$_B$, 112$_B$, 113$_B$, 114$_B$, 115$_B$, 116$_B$, 117$_B$, 118$_B$, 119$_B$, 120$_B$, 121$_B$, 122$_B$,~~

~~123$_B$, 124$_B$, 125$_B$, 126$_B$, 127$_B$, 128$_B$, 129$_B$, 130$_B$, 131$_B$, 132$_B$, 133$_B$, 134$_B$, 135$_B$, 136$_B$, 137$_B$,~~

~~138$_B$, 139$_B$, 140$_B$, 141$_B$, 142$_B$, 143$_B$, and 144$_B$.~~ 148, 152, 156, 160, 164, 168, 172, 176, 180,

184, 188, 192, 196, 200, 205, 209, 213, 217, 221, 225, 229, 233, 237, 241, 245, 249, 253,

257, 261, 265, 269, 273, 277, 281, 285, 289, 293, 297, 301, 305, 309, 313, 317, 321, 325,

329, 333, 337, 341, 345, 349, 353, 357, 361, 365, 369, 373, 377, 381, 385, 389, 393, 397,

401, 405, 409, 413, 417, 421, 425, 429, 433, 437, 441, 445, 449, 453, 457, 461, 465, 469,

473, 477, 481, 485, 489, 493, 497, 501, 505, 509, 513, 517, 521, 525, 529, 533, 537, 541, 545, 549, 553, 557, 561, 565, 569, 573, 577, 581, 585, 589, 593, 597, 601, 605, 609, 613, 617, 621, 625, 629, 633, 637, 641, 645, 649, 653, 657, 661, 665, 669, 673, 677, 681, 685, 689, 693, 697, 701, 705, 709, 713 and 717.

Please amend the paragraph on page 19, lines 4-5, as follows:

A preferred subset of embodiments of the invention are compounds comprising sequences of the **SEQ ID NOS** ~~formula 118_B, 119_B, 120_B, 121_B, 122_B, 123_B, 128_B, 129_B, 130_B, and 131_B.~~ **613, 617, 621, 625, 629, 633, 653, 657, 661 and 665.**

Please amend the paragraph on page 19, lines 7-16, as follows:

A further aspect of the invention is directed to compounds of SEQ NO**S** ~~2_G, 3_G, 4_G, 5_G, 6_S, 7_S, 8_G, 9_G, 10_G, 11_G, 12_G, 13_G, 14_G, 15_G, 16_G, 17_G, 18_G, 19_G, 20_G, 21_G, 22_G, 23_G, 24_G, 25_G, 26_G, 27_G, 28_G, 29_G, 30_G, 31_G, 32_G, 33_G, 34_G, 35_G, 36_G, 37_S, 38_G, 39_G, 40_G, 41_G, 42_G, 43_G, 44_G, 45_G, 46_G, 47_G, 48_G, 49_G, 50_G, 51_G, 52_G, 53_G, 54_G, 55_G, 56_G, 57_G, 58_G, 59_G, 60_G, 61_G, 62_G, 63_G, 64_G, 65_G, 66_G, 67_G, 68_G, 69_G, 70_G, 71_G, 72_G, 73_G, 74_G, 75_G, 76_G, 77_G, 78_G, 79_G, 80_G, 81_G, 82_G, 83_G, 84_G, 85_G, 86_G, 87_G, 88_G, 89_G, 90_G, 91_G, 92_G, 93_G, 94_G, 95_G, 96_G, 97_G, 98_G, 99_G, 100_G, 101_G, 102_G, 103_G, 104_G, 105_G, 106_G, 107_G, 108_G, 109_G, 101_G, 102_G, 103_G, 104_G, 105_G, 106_G, 107_G, 108_G, 109_G, 110_G, 111_G, 112_G, 113_G, 114_G, 115_G, 116_G, 117_G, 118_G, 119_G, 120_G, 121_G, 122_G, 123_G, 124_G, 125_G, 126_G, 127_G, 128_G, 129_G, 130_G, 131_G, 132_G, 133_G, 134_G, 135_G, 136_G, 137_G, 138_G, 139_G, 140_G, 141_G, 142_G, 143_G, and 144_G.~~ **149, 153, 157, 161, 165, 169, 173, 177, 181, 185, 189, 193, 197, 201, 206, 210, 214, 218, 222, 226, 230, 234, 238, 242, 246, 250, 254, 258, 262, 266, 270, 274, 278, 282, 286, 290, 294, 298, 302, 306, 310, 314, 318, 322, 326, 330, 334, 338, 342, 346, 350, 354, 358, 362, 366, 370, 374, 378, 382, 386, 390, 394, 398, 402, 406, 410, 414, 418, 422, 426, 430, 434, 438, 442, 446, 450, 454, 458, 462, 466, 470, 474, 478, 482, 486, 490, 494, 498, 502, 506, 510, 514, 518, 522, 526, 530, 534, 538, 542,**

546, 550, 554, 558, 562, 566, 570, 574, 578, 582, 586, 590, 594, 598, 602, 606, 610, 614, 618, 622, 626, 630, 634, 638, 642, 646, 650, 654, 658, 662, 666, 670, 674, 678, 682, 686, 690, 694, 698, 702, 706, 710, 714 and 718.

Please amend the paragraph on page 19, lines 18-27, as follows:

A further aspect of the invention is directed to compounds of SEQ NO**S** ~~$2_D, 3_D, 4_D, 5_D, 6_S, 7_S, 8_D, 9_D, 10_D, 11_D, 12_D, 13_D, 14_D, 15_D, 16_D, 17_D, 18_D, 19_D, 20_D, 21_D, 22_D, 23_D, 24_D, 25_D, 26_D, 27_D, 28_D, 29_D, 30_D, 31_D, 32_D, 33_D, 34_D, 35_D, 36_D, 37_S, 38_D, 39_D, 40_D, 41_D, 42_D, 43_D, 44_D, 45_D, 46_D, 47_D, 48_D, 49_D, 50_D, 51_D, 52_D, 53_D, 54_D, 55_D, 56_D, 57_D, 58_D, 59_D, 60_D, 61_D, 62_D, 63_D, 64_D, 65_D, 66_D, 67_D, 68_D, 69_D, 70_D, 71_D, 72_D, 73_D, 74_D, 75_D, 76_D, 77_D, 78_D, 79_D, 80_D, 81_D, 82_D, 83_D, 84_D, 85_D, 86_D, 87_D, 88_D, 89_D, 90_D, 91_D, 92_D, 93_D, 94_D, 95_D, 96_D, 97_D, 98_D, 99_D, 100_D, 101_D, 102_D, 103_D, 104_D, 105_D, 106_D, 107_D, 108_D, 109_D, 101_D, 102_D, 103_D, 104_D, 105_D, 106_D, 107_D, 108_D, 109_D, 110_D, 111_D, 112_D, 113_D, 114_D, 115_D, 116_D, 117_D, 118_D, 119_D, 120_D, 121_D, 122_D, 123_D, 124_D, 125_D, 126_D, 127_D, 128_D, 129_D, 130_D, 131_D, 132_D, 133_D, 134_D, 135_D, 136_D, 137_D, 138_D, 139_D, 140_D, 141_D, 142_D, 143_D, and 144_D$~~ **150, 154, 158, 162, 166, 170, 174, 178, 182, 186, 190, 194, 198, 202, 207, 211, 215, 219, 223, 227, 231, 235, 239, 243, 247, 251, 255, 259, 263, 267, 271, 275, 279, 283, 287, 291, 295, 299, 303, 307, 311, 315, 319, 323, 327, 331, 335, 339, 343, 347, 351, 355, 359, 363, 367, 371, 375, 379, 383, 387, 391, 395, 399, 403, 407, 411, 415, 419, 423, 427, 431, 435, 439, 443, 447, 451, 455, 459, 463, 467, 471, 475, 479, 483, 487, 491, 495, 499, 503, 507, 511, 515, 519, 523, 527, 531, 535, 539, 543, 547, 551, 555, 559, 563, 567, 571, 575, 579, 583, 587, 591, 595, 599, 603, 607, 611, 615, 619, 623, 627, 631, 635, 639, 643, 647, 651, 655, 659, 663, 667, 671, 675, 679, 683, 687, 691, 695, 699, 703, 707, 711, 715 and 719.**

Please amend the paragraph on page 19, lines 29-38, as follows:

A further aspect of the invention is directed to compounds of ~~SEQ NO 2_E, 3_E, 4_E, 5_E, 6_S, 7_S,~~ ~~8_E, 9_E, 10_E, 11_E, 12_E, 13_E, 14_E, 15_E,~~ **(SEQ ID NO: 203)** ~~16_E, 17_E, 18_E, 19_E, 20_E, 21_E, 22_E, 23_E,~~ ~~24_E, 25_E, 26_E, 27_E, 28_E, 29_E, 30_E, 31_E, 32_E, 33_E, 34_E, 35_E, 36_E, 37_S, 38_E, 39_E, 40_E, 41_E, 42_E,~~ ~~43_E, 44_E, 45_E, 46_E, 47_E, 48_E, 49_E, 50_E, 51_E, 52_E, 53_E, 54_E, 55_E, 56_E, 57_E, 58_E, 59_E, 60_E, 61_E,~~ ~~62_E, 63_E, 64_E, 65_E, 66_E, 67_E, 68_E, 69_E, 70_E, 71_E, 72_E, 73_E, 74_E, 75_E, 76_E, 77_E, 78_E, 79_E, 80_E,~~ ~~81_E, 82_E, 83_E, 84_E, 85_E, 86_E, 87_E, 88_E, 89_E, 90_E, 91_E, 92_E, 93_E, 94_E, 95_E, 96_E, 97_E, 98_E, 99_E,~~ ~~100_E, 101_E, 102_E, 103_E, 104_E, 105_E, 106_E, 107_E, 108_E, 109_E, 101_E, 102_E, 103_E, 104_E, 105_E,~~ ~~106_E, 107_E, 108_E, 109_E, 110_E, 111_E, 112_E, 113_E, 114_E, 115_E, 116_E, 117_E, 118_E, 119_E, 120_E,~~ ~~121_E, 122_E, 123_E, 124_E, 125_E, 126_E, 127_E, 128_E, 129_E, 130_E, 131_E, 132_E, 133_E, 134_E, 135_E,~~ ~~136_E, 137_E, 138_E, 139_E, 140_E, 141_E, 142_E, 143_E, and 144_E.~~

Please amend the paragraph on page 23 line 26 to page 24, line 12 as follows:

In a suitable embodiment, the subsequence is SEQ ID NO: **147** ~~2a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **151** ~~3a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **155** ~~4a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **159** ~~5a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **163** ~~6a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **167** ~~7a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **171** ~~8a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **175** ~~9a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **179** ~~10a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **183** ~~11a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **187** ~~12a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **191** ~~13a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **195** ~~14a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **199** ~~15a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **608** ~~117a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **612** ~~118a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **616** ~~119a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **620** ~~120a~~. In a suitable embodiment, the subsequence is SEQ

ID NO: **624** ~~121a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **628** ~~122a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **632** ~~123a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **636** ~~124a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **640** ~~125a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **644** ~~126a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **648** ~~127a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **652** ~~128a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **656** ~~129a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **660** ~~130a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **664** ~~131a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **668** ~~132a~~. In a suitable embodiment, the subsequence is SEQ ID NO: **672** ~~133a~~. In the immediately aforementioned individual suitable embodiments wherein the subsequence is one selected from SEQ ID NOS: ~~2a-144a~~ **148, 152, 156, 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 205, 209, 213, 217, 221, 225, 229, 233, 237, 241, 245, 249, 253, 257, 261, 265, 269, 273, 277, 281, 285, 289, 293, 297, 301, 305, 309, 313, 317, 321, 325, 329, 333, 337, 341, 345, 349, 353, 357, 361, 365, 369, 373, 377, 381, 385, 389, 393, 397, 401, 405, 409, 413, 417, 421, 425, 429, 433, 437, 441, 445, 449, 453, 457, 461, 465, 469, 473, 477, 481, 485, 489, 493, 497, 501, 505, 509, 513, 517, 521, 525, 529, 533, 537, 541, 545, 549, 553, 557, 561, 565, 569, 573, 577, 581, 585, 589, 593, 597, 601, 605, 609, 613, 617, 621, 625, 629, 633, 637, 641, 645, 649, 653, 657, 661, 665, 669, 673, 677, 681, 685, 689, 693, 697, 701, 705, 709, 713 and 717**, the 3' end LNA of the subsequence may suitably be replaced by the corresponding nucleotide.

Please amend the paragraph on page 24 line 21 to page 25, line 9, as follows:

In a suitable embodiment, the compound consists of SEQ ID NO:**147** ~~2a~~. In a suitable embodiment, the compound consists of SEQ ID NO: **151** ~~3a~~. In a suitable embodiment, the compound consists of SEQ ID NO: **155** ~~4a~~. In a suitable embodiment, the compound consists of SEQ ID NO: **159** ~~5a~~. In a suitable embodiment, the compound consists of SEQ ID NO: **163** ~~6a~~. In a suitable embodiment, the compound consists of SEQ ID NO: **167** ~~7a~~. In a suitable

embodiment, the compound consists of SEQ ID NO: **171** 8a. In a suitable embodiment, the compound consists of SEQ ID NO: **175** 9a. In a suitable embodiment, the compound consists of SEQ ID NO: **179** 10a. In a suitable embodiment, the compound consists of SEQ ID NO: **183** 11a. In a suitable embodiment, the compound consists of SEQ ID NO: **187** 12a. In a suitable embodiment, the compound consists of SEQ ID NO: **191** 13a. In a suitable embodiment, the compound consists of SEQ ID NO: **195** 14a. In a suitable embodiment, the compound consists of SEQ ID NO: **199** 15a. In a suitable embodiment, the compound consists of SEQ ID NO: **608** 117a. In a suitable embodiment, the compound consists of SEQ ID NO: **612** 118a. In a suitable embodiment, the compound consists of SEQ ID NO: **616** 119a. In a suitable embodiment, the compound consists of SEQ ID NO: **620** 120a. In a suitable embodiment, the compound consists of SEQ ID NO: **624** 121a. In a suitable embodiment, the compound consists of SEQ ID NO: **628** 122a. In a suitable embodiment, the compound consists of SEQ ID NO: **632** 123a. In a suitable embodiment, the compound consists of SEQ ID NO: **636** 124a. In a suitable embodiment, the compound consists of SEQ ID NO: **640** 125a. In a suitable embodiment, the compound consists of SEQ ID NO: **644** 126a. In a suitable embodiment, the compound consists of SEQ ID NO: **648** 127a. In a suitable embodiment, the compound consists of SEQ ID NO: **652** 128a. In a suitable embodiment, the compound consists of SEQ ID NO: **656** 129a. In a suitable embodiment, the compound consists of SEQ ID NO: **660** 130a. In a suitable embodiment, the compound consists of SEQ ID NO: **664** 131a. In a suitable embodiment, the compound consists of SEQ ID NO: **668** 132a. In a suitable embodiment, the compound consists of SEQ ID NO: **672** 133a. In the immediately aforementioned individual suitable embodiments wherein the compound is one selected from SEQ ID NOS: 2a-144a-**147, 151, 155, 159, 163, 167, 171, 175, 179, 183, 187, 191, 195, 199, 204, 208, 212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256, 260, 264, 268, 272, 276, 280, 284, 288, 292, 296, 300, 304, 308, 312, 316, 320, 324, 328, 332, 336, 340, 344, 348, 352, 356, 360, 364, 368, 372, 376, 380, 384, 388, 392, 396, 400, 404, 408, 412, 416, 420, 424, 428, 432, 436, 440, 444, 448, 452, 456, 460, 464, 468, 472, 476, 480, 484, 488, 492, 496, 500, 504, 508, 512, 516, 520, 524, 528, 532,**

536, 540, 544, 548, 552, 556, 560, 564, 568, 572, 576, 580, 584, 588, 592, 596, 600, 604, 608, 612, 616, 620, 624, 628, 632, 636, 640, 644, 648, 652, 656, 660, 664, 668, 672, 676, 680, 684, 688, 692, 696, 700, 704, 708, 712 and 716, the 3' end LNA of the compound may suitably be replaced by the corresponding nucleotide.

Please amend the paragraph on page 63 lines 8-15 as follows:

First strand synthesis was performed using OmniScript Reverse Transcriptase kit (cat# 205113, Qiagen) according to the manufacturers instructions.

For each sample 0.5 μg total RNA was adjusted to 12 μl each with RNase free H_2O and mixed with 2 μl poly (dT)$_{12\text{-}18}$ **(SEQ ID NO: 741)**(2.5 μg/ml) (Life Technologies, GibcoBRL, Roskilde, DK), 2 μl dNTP mix (5 mM each dNTP), 2 μl 10x Buffer RT, 1 μl RNAguard™Rnase INHIBITOR (33.3U/ml), (cat# 27-0816-01, Amersham Pharmacia Biotech, Hørsholm, DK) and 1 μl OmniScript Reverse Transcriptase (4 U/μl) followed by incubation at 37°C for 60 minutes and heat inactivation of the enzyme at 93°C for 5 minutes.

Please amend the paragraph on page 64 lines 9-18, as follows:

For human Survivin the PCR primers were:

Assay 1

forward primer: 5' caggtccccgctttctttg 3' **(SEQ ID NO: 727)** (final concentration in the assay; 0.6 μM)

reverse primer: 5' ggaggagggcgaatcaaa 3' **(SEQ ID NO: 728)** (final concentration in the assay; 0.6 μM) and the PCR probe was: 5' FAM- ccatcatcttacgccagacttcagcc-TAMRA 3' **(SEQ ID NO: 729)** (final concentration in the assay; 0.1 μM) Assay 2

forward primer: 5' aaggaccaccgcatctctaca 3' **(SEQ ID NO: 730)** (final concentration in the assay; 0.9 μM)

reverse primer: 5' ccaagtctggctcgttctcagt 3' **(SEQ ID NO: 731)** (final concentration in the

assay; 0.6 µM) and the PCR probe was: 5' FAM- cgaggctggcttcatccactgcc -TAMRA 3'**(SEQ**

ID NO: 732) (final concentration in the assay; 0.1 µM)

Please amend the paragraph on page 64 lines 27-31, as follows:

For quantification of mouse GAPDH mRNA the following primers and probes were

designed: Sense primer 5'aaggctgtgggcaaggtcatc 3' **(SEQ ID NO: 733)**(0.3 µM final

concentration),

antisense primer 5' gtcagatccacgacggacacatt **(SEQ ID NO: 734)** (0.6 µM final concentration),

TaqMan probe 5' FAM-gaagctcactggcatggcatggccttccgtgttc-TAMRA 3' **(SEQ ID NO: 735)**

(0.2 µM final concentration).

Please amend the paragraph on page 65 lines 7-13, as follows:

Northern blot analysis was carried out by procedures well known in the art essentially as

described in Current Protocols in Molecular Biology, John Wiley & Sons.

The hybridisation probe was obtained by PCR-amplification of a 373 bp fragment from 1 µl

cDNA obtained by reverse transcription PCR. The reaction was carried out using primers 5'

agcacaaagccattctaagtcattg 3' **(SEQ ID NO: 736)** (forward) and 5' tccatcatcttacgccagacttc

3'**(SEQ ID NO: 737)** (reverse) at 0,5 µM final concentration each, 200 nM each dNTP, 1,5

mM $MgCl_2$ and Platinum Taq DNA polymerase (Invitrogen cat. no. 10966-018).

Please amend the paragraph on page 66 lines 6-11, as follows:

Equality of RNA sample loading was assessed by stripping the blot in 0,5% SDS in H_2O at

85°C and reprobing with a labelled GAPDH (glyceraldehyde-3-phosphate dehydrogenase)

probe obtained essentially as described above using the primers 5' aacggatttggtcgtatt 3' (SEQ ID NO: 739) (forward) and 5' taagcagttggtggtgca 3' (SEQ ID NO: 740) (reverse). See figure 2 and 3. Intensity was monitored with phosphoimager Biorad, FX-scanner (see below). The tested oligomeric compounds are presented in Example 10.

Please amend Table 1 starting on page 67, as follows:

Table 1 Oligomeric compounds of the invention

Oligomeric compounds were evaluated for their potential to knockdown Survivin mRNA in 15PC3 cells. The data are presented as percentage downregulation relative to mock transfected cells. Transcript steady state was monitored by Real-time PCR and normalised to the GAPDH transcript steady state. Note that all LNA C are 5'-Methyl-Cytosine.

Target site	SEQ ID NO.	Oligomeric compound Sequence 5'-3'	Seq ID + Design	Specific design of Oligomeric compound Capital letters β-D-oxy-LNA S= phosphorthioate O=-O-P(O)$_2$-O- Small letters DNA sugar	% Inhibi-tion at 25 nM	% Inhibi-tion at 5 nM oligo
172	2	GCAGTGGATGAAGCCA	2A 147	$G_sC_sA_sG_st_sg_sg_sa_st_sg_sa_sa_sG_sC_sC_sA$	85	44
			2B 148	$G_sC_sA_sG_st_sg_sg_sa_st_sg_sa_sa_sG_sC_sC_sa$	91	
			2C 149	$G_OC_OA_OG_Ot_sg_sg_sa_st_sg_sa_sa_sG_OC_O C_OA$		
			2D 150	$g_sc_sa_sg_st_sg_sg_sa_st_sg_sa_sa_sg_sc_sc_sa$		
198	3	GCCAAGTCTGGCTCGT	3A 151	$G_sC_sC_sA_sa_sg_st_sc_st_sg_sg_sc_sT_sC_sG_sT$	49	
			3B 152	$G_sC_sC_sA_sa_sg_st_sc_st_sg_sg_sc_sT_sC_sG_st$		
			3C 153	$G_OC_OC_OA_Oa_sg_st_sc_st_sg_sg_sc_sT_OC_O G_OT$		
			3D 154	$g_sc_sc_sa_sa_sg_st_sc_st_sg_sg_sc_st_sc_sg_st$		
206	4	AACACTGGGCCAAGTC	4A 155	$A_sA_sC_sA_sc_st_sg_sg_sg_sc_sc_sa_sA_sG_sT_sC$	74	

			4B 156	$A_sA_sC_sA_sc_st_sg_sg_sg_sc_sc_sa_sA_sG_sT_sc$	91	
			4C 157	$A_OA_OC_OA_Oc_st_sg_sg_sg_sg_sc_sc_sa_sA_OG_OT_OC$		
			4D 158	$a_sa_sc_sa_sc_st_sg_sg_sg_sg_sc_sc_sa_sa_sg_st_sc$		
214	5	GCAGAAGAAACACTGG	5A 159	$G_sC_sA_sG_sa_sa_sg_sa_sa_sa_sc_sa_sC_sT_sG_sG$	67	
			5B 160	$G_sC_sA_sG_sa_sa_sg_sa_sa_sa_sc_sa_sC_sT_sG_sg$		
			5C 161	$G_OC_OA_OG_Oa_sa_sg_sa_sa_sa_sc_sa_sC_OT_OG_OG$		
			5D 162	$g_sc_sa_sg_sa_sa_sg_sa_sa_sa_sc_sa_sc_st_sg_sg$		
216	6	AAGCAGAAGAAACACT	6A 163	$A_sA_sG_sC_sa_sg_sa_sa_sg_sa_sa_sa_sC_sA_sC_sT$	88	63
			6B 164	$A_sA_sG_sC_sa_sg_sa_sa_sg_sa_sa_sa_sC_sA_sC_st$	79	
			6C 165	$A_OA_OG_OC_Oa_sg_sa_sa_sg_sa_sa_sa_sC_OA_OC_OT$		
			6D 166	$a_sa_sg_sc_sa_sg_sa_sa_sg_sa_sa_sa_sc_sa_sc_st_s$		
238	7	CTCCCAGCCTTCCAGC	7A 167	$C_sT_sC_sC_sc_sa_sg_sc_sc_st_st_sc_sC_sA_sG_sC$	26	
			7B 168	$C_sT_sC_sC_sc_sa_sg_sc_sc_st_st_sc_sC_sA_sG_sc$		
			7C 169	$C_OT_OC_OC_Oc_sa_sg_sc_sc_st_st_sc_sC_OA_OG_OC$		
			7D 170	$c_st_sc_sc_sc_sa_sg_sc_sc_st_st_sc_sc_sa_sg_sc$		
403	8	TTCTTTCTTCTTATTG	8A 171	$T_sT_sC_sT_st_st_sc_st_st_sc_st_st_sA_sT_sT_sG$	62	
			8B 172	$T_sT_sC_sT_st_st_sc_st_st_sc_st_st_sA_sT_sT_sg$		
			8C 173	$T_OT_OC_OT_Ot_st_sc_st_st_sc_st_st_sA_OT_OT_OG$		
			8D 174	$t_st_sc_st_st_st_sc_st_st_sc_st_st_sa_st_st_sg$		
491	9	TGGGACCAGGCAGCTC	9A	$T_sG_sG_sG_sa_sc_sc_sa_sg_sg_sc_sa_sG_sC_sT_sC$	78	50

			~~175~~			
			~~9B~~ 176	$T_sG_sG_sG_sa_sc_sc_sa_sg_sg_sg_sc_sa_sG_sC_sT_sc$		
			~~9C~~ 177	$T_OG_OG_OG_Oa_sc_sc_sa_sg_sg_sg_sc_sa_sG_OC_OT_OC$		
			~~9D~~ 178	$t_st_sc_st_st_st_sc_st_st_sc_st_st_sa_st_st_sg$		
505	10	TGGTGCAGCCACTCTG	~~10A~~ 179	$T_sG_sG_sT_sg_sc_sa_sg_sc_sc_sc_sa_sc_sT_sC_sT_sG$	56	
			~~10B~~ 180	$T_sG_sG_sT_sg_sc_sa_sg_sc_sc_sc_sa_sc_sT_sC_sT_sg$		
			~~10C~~ 181	$T_OG_OG_OT_Og_sc_sa_sg_sc_sc_sc_sa_sc_sT_OC_OT_OG$		
			~~10D~~ 182	$t_sg_sg_st_sg_sc_sa_sg_sc_sc_sc_sa_sc_st_sc_st_sg$		
521	11	GAATAAACCCTGGAAG	~~11A~~ 183	$G_sA_sA_sT_sa_sa_sa_sa_sc_sc_sc_st_sg_sG_sA_sA_sG$	58	
			~~11B~~ 184	$G_sA_sA_sT_sa_sa_sa_sa_sc_sc_sc_st_sg_sG_sA_sA_sg$		
			~~11C~~ 185	$G_OA_OA_OT_Oa_sa_sa_sa_sc_sc_sc_st_sg_sG_OA_OA_OG$		
			~~11D~~ 186	$g_sa_sa_st_sa_sa_sa_sa_sc_sc_sc_st_sg_sg_sa_sa_sg$		
531	12	TGGCACCAGGGAATAA	~~12A~~ 187	$T_sG_sG_sC_sa_sc_sc_sc_sa_sg_sg_sg_sg_sa_sA_sT_sA_sA$	44	
			~~12B~~ 188	$T_sG_sG_sC_sa_sc_sc_sc_sa_sg_sg_sg_sg_sa_sA_sT_sA_sa$		
			~~12C~~ 189	$T_OG_OG_OC_Oa_sc_sc_sc_sa_sg_sg_sg_sg_sa_sA_OT_OA_OA$		
			~~12D~~ 190	$t_sg_sg_sc_sa_sc_sc_sa_sg_sg_sg_sg_sa_sa_st_sa_sa$		
566	13	CTAAGACATTGCTAAG	~~13A~~ 191	$C_sT_sA_sA_sg_sa_sc_sa_st_st_sg_sc_sT_sA_sA_sG$	78	
			~~13B~~ 192	$C_sT_sA_sA_sg_sa_sc_sa_st_st_sg_sc_sT_sA_sA_sg$		
			~~13C~~ 193	$C_OT_OA_OA_Og_sa_sc_sa_st_st_sg_sc_sT_OA_OA_OG$		
			~~13D~~ 194	$c_st_sa_sa_sg_sa_sc_sa_st_st_sg_sc_st_sa_sa_sg$		

579	14	TTGATCTCCTTTCCTA	~~14A~~ <u>195</u>	$T_sT_sG_sA_st_sc_st_sc_sc_st_st_st_sC_sC_sT_sA$	73	
			~~14B~~ <u>196</u>	$T_sT_sG_sA_st_sc_st_sc_sc_st_st_st_sC_sC_sT_sa$		
			~~14C~~ <u>197</u>	$T_OT_OG_OA_Ot_sc_st_sc_sc_st_st_st_sC_OC_OT_OA$		
			~~14D~~ <u>198</u>	$t_st_sg_sa_st_sc_st_sc_sc_st_st_st_sc_sc_st_sa_s$		
608	15	GCACAGTTGAAACATC	~~15A~~ <u>199</u>	$G_sC_sA_sC_sa_sg_st_st_sg_sa_sa_sa_sa_sC_sA_sT_sC$	96	93
			~~15B~~ <u>200</u>	$G_sC_sA_sC_sa_sg_st_st_sg_sa_sa_sa_sa_sC_sA_sT_sc$	89	79
			~~15C~~ <u>201</u>	$G_OC_OA_OC_Oa_sg_st_st_sg_sa_sa_sa_sa_sC_OA_OT_OC$		
			~~15D~~ <u>202</u>	$g_sc_sa_sc_sa_sg_st_st_sg_sa_sa_sa_sa_sc_sa_st_sc$		
			~~15E~~ <u>203</u>	$G_sC_sA_sc_sa_sg_st_st_sg_sa_sa_sa_sa_sC_sA_sT_sc$	83	78
1	16	GATTCAAATCTGGCGG	~~16A~~ <u>204</u>	$G_sA_sT_sT_sc_sa_sa_sa_sa_st_sc_st_sg_sG_sC_sG_sG$		
			~~16B~~ <u>205</u>	$G_sA_sT_sT_sc_sa_sa_sa_sa_st_sc_st_sg_sG_sC_sG_sg$		
			~~16C~~ <u>206</u>	$G_OA_OT_OT_Oc_sa_sa_sa_sa_st_sc_st_sg_sG_OC_OG_OG$		
			~~16D~~ <u>207</u>	$g_sa_st_st_sc_sa_sa_sa_sa_st_sc_st_sg_sg_sc_sg_sg$		
17	17	TGCCAACGGGTCCCGC	~~17A~~ <u>208</u>	$T_sG_sC_sC_sa_sa_sc_sg_sg_sg_st_sc_sC_sC_sG_sC$		
			~~17B~~ <u>209</u>	$T_sG_sC_sC_sa_sa_sc_sg_sg_sg_st_sc_sC_sC_sG_sc$		
			~~17C~~ <u>210</u>	$T_OG_OC_OC_Oa_sa_sc_sg_sg_sg_st_sc_sC_OC_OG_OC$		
			~~17D~~ <u>211</u>	$t_sg_sc_sc_sa_sa_sc_sg_sg_sg_st_sc_sc_sc_sg_sc$		
33	18	CCGCCGCCGCCACCTC	~~18A~~ <u>212</u>	$C_sC_sG_sC_sc_sg_sc_sc_sg_sc_sc_sa_sC_sC_sT_sC$		
			~~18B~~ <u>213</u>	$C_sC_sG_sC_sc_sg_sc_sc_sg_sc_sc_sa_sC_sC_sT_sc$		

			~~18C~~ <u>214</u>	$C_OC_OG_OC_Oc_sg_sc_sc_sg_sc_sc_sa_sC_OC_OT_OC$
			~~18D~~ <u>215</u>	$c_sc_sg_sc_sc_sg_sc_sc_sg_sc_sc_sa_sc_sc_st_sc$
49	19	CGTCGGGGCACCCATG	~~19A~~ <u>216</u>	$C_sG_sT_sC_sg_sg_sg_sg_sg_sc_sa_sc_sc_sC_sA_sT_sG$
			~~19B~~ <u>217</u>	$C_sG_sT_sC_sg_sg_sg_sg_sg_sc_sa_sc_sc_sC_sA_sT_sg$
			~~19C~~ <u>218</u>	$C_OG_OT_OC_Og_sg_sg_sg_sc_sa_sc_sc_sC_OA_OT_OG$
			~~19D~~ <u>219</u>	$c_sg_st_sc_sg_sg_sg_sg_sg_sc_sa_sc_sc_sc_sa_st_sg$
65	20	GCCAGGCAGGGGGCAA	~~20A~~ <u>220</u>	$G_sC_sC_sA_sg_sg_sg_sc_sa_sg_sg_sg_sg_sg_sG_sC_sA_sA$
			~~20B~~ <u>221</u>	$G_sC_sC_sA_sg_sg_sg_sc_sa_sg_sg_sg_sg_sg_sG_sC_sA_sa$
			~~20C~~ <u>222</u>	$G_OC_OC_OA_Og_sg_sc_sa_sg_sg_sg_sg_sg_sG_OC_OA_OA$
			~~20D~~ <u>223</u>	$g_sc_sc_sa_sg_sg_sg_sc_sa_sg_sg_sg_sg_sg_sg_sc_sa_sa$
81	21	TCCTTGAGAAAGGGCT	~~21A~~ <u>224</u>	$T_sC_sC_sT_st_sg_sa_sg_sa_sa_sa_sg_sG_sG_sC_sT$
			~~21B~~ <u>225</u>	$T_sC_sC_sT_st_sg_sa_sg_sa_sa_sa_sg_sG_sG_sC_st$
			~~21C~~ <u>226</u>	$T_OC_OC_OT_Ot_sg_sa_sg_sa_sa_sa_sg_sG_OG_OC_OT$
			~~21D~~ <u>227</u>	$t_sc_sc_st_st_sg_sa_sg_sa_sa_sa_sg_sg_sg_sc_st$
97	22	TGTAGAGATGCGGTGG	~~22A~~ <u>228</u>	$T_sG_sT_sA_sg_sa_sg_sa_st_sg_sc_sg_sG_sT_sG_sG$
			~~22B~~ <u>229</u>	$T_sG_sT_sA_sg_sa_sg_sa_st_sg_sc_sg_sG_sT_sG_sg$
			~~22C~~ <u>230</u>	$T_OG_OT_OA_Og_sa_sg_sa_st_sg_sc_sg_sG_OT_OG_OG$
			~~22D~~ <u>231</u>	$t_sg_st_sa_sg_sa_sg_sa_st_sg_sc_sg_sg_st_sg_sg$
113	23	AGGGCCAGTTCTTGAA	~~23A~~ <u>232</u>	$A_sG_sG_sG_sc_sc_sa_sg_st_st_sc_st_sT_sG_sA_sA$

			~~23B~~ <u>233</u>	$A_sG_sG_sG_sc_sc_sa_sg_st_st_sc_st_sT_sG_sA_sa$
			~~23C~~ <u>234</u>	$A_OG_OG_OG_Oc_sc_sa_sg_st_st_sc_st_sT_OG_OA_OA$
			~~23D~~ <u>235</u>	$a_sg_sg_sg_sc_sc_sa_sg_st_st_sc_st_sg_sa_sa$
129	24	GCGCAGCCCTCCAAGA	~~24A~~ <u>236</u>	$G_sC_sG_sC_sa_sg_sc_sc_sc_st_sc_sc_sA_sA_sG_sA$
			~~24B~~ <u>237</u>	$G_sC_sG_sC_sa_sg_sc_sc_sc_st_sc_sc_sA_sA_sG_sa$
			~~24C~~ <u>238</u>	$G_OC_OG_OC_Oa_sg_sc_sc_sc_st_sc_sc_sA_OA_OG_OA$
			~~24D~~ <u>239</u>	$g_sc_sg_sc_sa_sg_sc_sc_sc_st_sc_sc_sa_sa_sg_sa$
145	25	CCGCTCCGGGGTGCAG	~~25A~~ <u>240</u>	$C_sC_sG_sC_st_sc_sc_sg_sg_sg_sg_sg_st_sG_sC_sA_sG$
			~~25B~~ <u>241</u>	$C_sC_sG_sC_st_sc_sc_sg_sg_sg_sg_sg_st_sG_sC_sA_sg$
			~~25C~~ <u>242</u>	$C_OC_OG_OC_Ot_sc_sc_sg_sg_sg_sg_sg_st_sG_OC_OA_OG$
			~~25D~~ <u>243</u>	$c_sc_sg_sc_st_sc_sc_sg_sg_sg_sg_sg_st_sg_sc_sa_sg$
161	26	AGCCAGCCTCGGCCAT	~~26A~~ <u>244</u>	$A_sG_sC_sC_sa_sg_sc_sc_st_sc_sg_sg_sg_sC_sC_sA_sT$
			~~26B~~ <u>245</u>	$A_sG_sC_sC_sa_sg_sc_sc_st_sc_sg_sg_sg_sC_sC_sA_st$
			~~26C~~ <u>246</u>	$A_OG_OC_OC_Oa_sg_sc_sc_st_sc_sg_sg_sg_sC_OC_OA_OT$
			~~26D~~ <u>247</u>	$a_sg_sc_sc_sa_sg_sc_sc_st_sc_sg_sg_sg_sc_sc_sa_st$
177	27	GTGGGGCAGTGGATGA	~~27A~~ <u>248</u>	$G_sT_sG_sG_sg_sg_sg_sc_sa_sg_st_sg_sg_sg_sA_sT_sG_sA$
			~~27B~~ <u>249</u>	$G_sT_sG_sG_sg_sg_sg_sc_sa_sg_st_sg_sg_sg_sA_sT_sG_sa$
			~~27C~~ <u>250</u>	$G_OT_OG_OG_Og_sg_sc_sa_sg_st_sg_sg_sg_sA_OT_OG_OA$
			~~27D~~ <u>251</u>	$g_st_sg_sg_sg_sg_sg_sc_sa_sg_st_sg_sg_sg_sa_st_sg_sa$

193	28	GTCTGGCTCGTTCTCA	~~28A~~ <u>252</u>	$G_sT_sC_sT_sg_sg_sg_sc_st_sc_sg_st_st_sC_sT_sC_sA$
			~~28B~~ <u>253</u>	$G_sT_sC_sT_sg_sg_sg_sc_st_sc_sg_st_st_sC_sT_sC_s{}^a$
			~~28C~~ <u>254</u>	$G_OT_OC_OT_Og_sg_sc_st_sc_sg_st_st_sC_OT_OC_O{}^A$
			~~28D~~ <u>255</u>	$g_st_sc_st_sg_sg_sg_sc_st_sc_sg_st_st_sc_st_sc_s{}^a$
209	29	AGAAACACTGGGCCAA	~~29A~~ <u>256</u>	$A_sG_sA_sA_s{}^a{}^c_sa_sc_st_sg_sg_sg_sg_sC_sC_sA_sA$
			~~29B~~ <u>257</u>	$A_sG_sA_sA_s{}^a{}^c_sa_sc_st_sg_sg_sg_sg_sC_sC_sA_s{}^a$
			~~29C~~ <u>258</u>	$A_OG_OA_OA_O{}^a{}^c_sa_sc_st_sg_sg_sg_sg_sC_OC_OA_O{}^A$
			~~29D~~ <u>259</u>	$a_sg_sa_sa_sa_sc_sa_sc_st_sg_sg_sg_sg_sc_sc_sa_s{}^a$
225	30	AGCTCCTTGAAGCAGA	~~30A~~ <u>260</u>	$A_sG_sC_sT_s{}^c{}^c_st_st_sg_sa_sa_sg_sC_sA_sG_sA$
			~~30B~~ <u>261</u>	$A_sG_sC_sT_s{}^c{}^c_st_st_sg_sa_sa_sg_sC_sA_sG_s{}^a$
			~~30C~~ <u>262</u>	$A_OG_OC_OT_O{}^c{}^c_st_st_sg_sa_sa_sg_sC_OA_OG_O{}^A$
			~~30D~~ <u>263</u>	$a_sg_sc_st_sc_sc_st_st_sg_sa_sa_sg_sc_sa_sg_s{}^a$
241	31	TGGCTCCCAGCCTTCC	~~31A~~ <u>264</u>	$T_sG_sG_sC_st_sc_sc_sc_sa_sg_sc_sc_sT_sT_sC_sC$
			~~31B~~ <u>265</u>	$T_sG_sG_sC_st_sc_sc_sc_sa_sg_sc_sc_sT_sT_sC_s{}^c$
			~~31C~~ <u>266</u>	$T_OG_OG_OC_Ot_sc_sc_sc_sa_sg_sc_sc_sT_OT_OC_O{}^C$
			~~31D.~~ <u>267</u>	$t_sg_sg_sc_st_sc_sc_sc_sa_sg_sc_sc_st_st_sc_s{}^c$
257	32	CTATGGGGTCGTCATC	~~32A~~ <u>268</u>	$C_sT_sA_sT_sg_sg_sg_sg_st_sc_sg_st_sC_sA_sT_sC$
			~~32B~~ <u>269</u>	$C_sT_sA_sT_sg_sg_sg_sg_st_sc_sg_st_sC_sA_sT_s{}^c$
			~~32C~~ <u>270</u>	$C_OT_OA_OT_Og_sg_sg_sg_st_sc_sg_st_sC_OA_OT_O{}^C$

			~~32D~~ <u>271</u>	$c_st_sa_st_sg_sg_sg_sg_sg_st_sc_sg_st_sc_sa_st_sc$
273	33	TGCTTTTTATGTTCCT	~~33A~~ <u>272</u>	$T_sG_sC_sT_st_st_st_st_sa_st_sg_st_sT_sC_sC_sT$
			~~33B~~ <u>273</u>	$T_sG_sC_sT_st_st_st_st_sa_st_sg_st_sT_sC_sC_st$
			~~33C~~ <u>274</u>	$T_OG_OC_OT_Ot_st_st_st_sa_st_sg_st_sT_OC_OC_OT$
			~~33D~~ <u>275</u>	$t_sg_sc_st_st_st_st_st_sa_st_sg_st_st_sc_sc_st$
289	34	AGCGCAACCGGACGAA	~~34A~~ <u>276</u>	$A_sG_sC_sG_sc_sa_sa_sc_sc_sg_sg_sa_sC_sG_sA_sA$
			~~34B~~ <u>277</u>	$A_sG_sC_sG_sc_sa_sa_sc_sc_sg_sg_sa_sC_sG_sA_sa$
			~~34C~~ <u>278</u>	$A_OG_OC_OG_Oc_sa_sa_sc_sc_sg_sg_sa_sC_OG_OA_OA$
			~~34D~~ <u>279</u>	$a_sg_sc_sg_sc_sa_sa_sc_sc_sg_sg_sa_sc_sg_sa_sa$
305	35	TCTTGACAGAAAGGAA	~~35A~~ <u>280</u>	$T_sC_sT_sT_sg_sa_sc_sa_sg_sa_sa_sa_sG_sG_sA_sA$
			~~35B~~ <u>281</u>	$T_sC_sT_sT_sg_sa_sc_sa_sg_sa_sa_sa_sG_sG_sA_sa$
			~~35C~~ <u>282</u>	$T_OC_OT_OT_Og_sa_sc_sa_sg_sa_sa_sa_sG_OG_OA_OA$
			~~35D~~ <u>283</u>	$t_sc_st_st_sg_sa_sc_sa_sg_sa_sa_sa_sg_sg_sa_sa$
321	36	AATTCTTCAAACTGCT	~~36A~~ <u>284</u>	$A_sA_sT_sT_sc_st_st_sc_sa_sa_sa_sc_sT_sG_sC_sT$
			~~36B~~ <u>285</u>	$A_sA_sT_sT_sc_st_st_sc_sa_sa_sa_sc_sT_sG_sC_st$
			~~36C~~ <u>286</u>	$A_OA_OT_OT_Oc_st_st_sc_sa_sa_sa_sc_sT_OG_OC_OT$
			~~36D~~ <u>287</u>	$a_sa_st_st_sc_st_st_sc_sa_sa_sa_sc_st_sg_sc_st$
337	37	AAATTCACCAAGGGTT	~~37A~~ <u>288</u>	$A_sA_sA_sT_st_sc_sa_sc_sc_sa_sa_sG_sG_sG_sT_sT$
			~~37B~~ <u>289</u>	$A_sA_sA_sT_st_sc_sa_sc_sc_sa_sa_sG_sG_sG_sT_st$

			~~37C~~ 290	$A_OA_OA_OT_Ot_sc_sa_sc_sc_sa_sa_sg_sG_OG_OT_OT$
			~~37D~~ 291	$a_sa_sa_st_st_sc_sa_sc_sc_sa_sa_sg_sg_sg_st_st$
353	38	CTCTGTCCAGTTTCAA	~~38A~~ 292	$C_sT_sC_sT_sg_st_sc_sc_sa_sg_st_st_sT_sC_sA_sA$
			~~38B~~ 293	$C_sT_sC_sT_sg_st_sc_sc_sa_sg_st_st_sT_sC_sA_sa$
			~~38C~~ 294	$C_OT_OC_OT_Og_st_sc_sc_sa_sg_st_st_sT_OC_OA_OA$
			~~38D~~ 295	$c_st_sc_st_sg_st_sc_sc_sa_sg_st_st_st_sc_sa_sa$
369	39	TTGTTCTTGGCTCTTT	~~39A~~ 296	$T_sT_sG_sT_st_sc_st_st_sg_sg_sc_st_sC_sT_sT_sT$
			~~39B~~ 297	$T_sT_sG_sT_st_sc_st_st_sg_sg_sc_st_sC_sT_sT_st$
			~~39C~~ 298	$T_OT_OG_OT_Ot_sc_st_st_sg_sg_sc_st_sC_OT_OT_OT$
			~~39D~~ 299	$t_st_sg_st_st_sc_st_st_sg_sg_sc_st_sc_st_st_st$
385	40	GGTTTCCTTTGCAATT	~~40A~~ 300	$G_sG_sT_sT_st_sc_sc_st_st_st_sg_sc_sA_sA_sT_sT$
			~~40B~~ 301	$G_sG_sT_sT_st_sc_sc_st_st_st_sg_sc_sA_sA_sT_st$
			~~40C~~ 302	$G_OG_OT_OT_Ot_sc_sc_st_st_st_sg_sc_sA_OA_OT_OT$
			~~40D~~ 303	$g_sg_st_st_sc_sc_st_st_st_sg_sc_sa_sa_st_st$
401	41	CTTTCTTCTTATTGTT	~~41A~~ 304	$C_sT_sT_sT_sc_st_st_sc_st_st_sa_st_sT_sG_sT_sT$
			~~41B~~ 305	$C_sT_sT_sT_sc_st_st_sc_st_st_sa_st_sT_sG_sT_st$
			~~41C~~ 306	$C_OT_OT_OT_Oc_st_st_sc_st_st_sa_st_sT_OG_OT_OT$
			~~41D~~ 307	$c_st_st_st_sc_st_st_sc_st_st_sa_st_st_sg_st_st$
417	42	GCAGTTTCCTCAAATT	~~42A~~ 308	$G_sC_sA_sG_st_st_st_sc_sc_sc_st_sc_sa_sA_sA_sT_sT$

			42B 309	$G_sC_sA_sG_st_st_st_sc_sc_st_sc_sa_sA_sA_sT_st$
			42C 310	$G_OC_OA_OG_Ot_st_st_sc_sc_st_sc_sa_sA_OA_OT_OT$
			42D 311	$g_sc_sa_sg_st_st_st_sc_sc_st_sc_sa_sa_sa_st_st$
433	43	ACGGCGCACTTTCTTC	43A 312	$A_sC_sG_sG_sc_sg_sc_sa_sc_st_st_st_sC_sT_sT_sC$
			43B 313	$A_sC_sG_sG_sc_sg_sc_sa_sc_st_st_st_sC_sT_sT_st$
			43C 314	$A_OC_OG_OG_Oc_sg_sc_sa_sc_st_st_st_sC_OT_OT_OC$
			43D 315	$a_sc_sg_sg_sc_sg_sc_sa_sc_st_st_st_sc_st_st_sc$
449	44	CCAGCTGCTCGATGGC	44A 316	$C_sC_sA_sG_sc_st_sg_sc_st_sc_sg_sa_sT_sG_sG_sC$
			44B 317	$C_sC_sA_sG_sc_st_sg_sc_st_sc_sg_sa_sT_sG_sG_st$
			44C 318	$C_OC_OA_OG_Oc_st_sg_sc_st_sc_sg_sa_sT_OG_OG_OC$
			44D 319	$c_sc_sa_sg_sc_st_sg_sc_st_sc_sg_sa_st_sg_sg_sc$
465	45	CCTCAATCCATGGCAG	45A 320	$C_sC_sT_sC_sa_sa_st_sc_sc_sa_st_sg_sG_sC_sA_sG$
			45B 321	$C_sC_sT_sC_sa_sa_st_sc_sc_sa_st_sg_sG_sC_sA_sg$
			45C 322	$C_OC_OT_OC_Oa_sa_st_sc_sc_sa_st_sg_sG_OC_OA_OG$
			45D 323	$c_sc_st_sc_sa_sa_st_sc_sc_sa_st_sg_sg_sc_sa_sg$
481	46	CAGCTCCGGCCAGAGG	46A 324	$C_sA_sG_sC_st_sc_sc_sg_sg_sc_sc_sa_sG_sA_sG_sG$
			46B 325	$C_sA_sG_sC_st_sc_sc_sg_sg_sc_sc_sa_sG_sA_sG_sg$
			46C 326	$C_OA_OG_OC_Ot_sc_sc_sg_sg_sc_sc_sa_sG_OA_OG_OG$
			46D 327	$c_sa_sg_sc_st_sc_sc_sg_sg_sc_sc_sa_sg_sa_sg_sg$

497	47	CCACTCTGGGACCAGG	~~47A~~ 328	$C_sC_sA_sC_st_sc_st_sg_sg_sg_sg_sa_sc_sC_sA_sG_sG$
			~~47B~~ 329	$C_sC_sA_sC_st_sc_st_sg_sg_sg_sg_sa_sc_sC_sA_sG_sg$
			~~47C~~ 330	$C_OC_OA_OC_Ot_sc_st_sg_sg_sg_sg_sa_sc_sC_OA_OG_OG$
			~~47D~~ 331	$c_sc_sa_sc_st_sc_st_sg_sg_sg_sg_sa_sc_sc_sa_sg_sg$
513	48	CCTGGAAGTGGTGCAG	~~48A~~ 332	$C_sC_sT_sG_sg_sa_sa_sg_st_sg_sg_sg_st_sG_sC_sA_sG$
			~~48B~~ 333	$C_sC_sT_sG_sg_sa_sa_sg_st_sg_sg_sg_st_sG_sC_sA_sg$
			~~48C~~ 334	$C_OC_OT_OG_Og_sa_sa_sg_st_sg_sg_sg_st_sG_OC_OA_OG$
			~~48D~~ 335	$c_sc_st_sg_sg_sg_sa_sa_sg_st_sg_sg_sg_st_sg_sc_sa_sg$
529	49	GCACCAGGGAATAAAC	~~49A~~ 336	$G_sC_sA_sC_sc_sa_sg_sg_sg_sg_sa_sa_st_sA_sA_sA_sC$
			~~49B~~ 337	$G_sC_sA_sC_sc_sa_sg_sg_sg_sg_sa_sa_st_sA_sA_sA_sc$
			~~49C~~ 338	$G_OC_OA_OC_Oc_sa_sg_sg_sg_sg_sa_sa_st_sA_OA_OA_OC$
			~~49D~~ 339	$g_sc_sa_sc_sc_sa_sg_sg_sg_sg_sa_sa_st_sa_sa_sa_sc$
545	50	CACAGGAAGGCTGGTG	~~50A~~ 340	$C_sA_sC_sA_sg_sg_sg_sa_sa_sg_sg_sc_st_sG_sG_sT_sG$
			~~50B~~ 341	$C_sA_sC_sA_sg_sg_sg_sa_sa_sg_sg_sc_st_sG_sG_sT_sg$
			~~50C~~ 342	$C_OA_OC_OA_Og_sg_sa_sa_sg_sg_sc_st_sG_OG_OT_OG$
			~~50D~~ 343	$c_sa_sc_sa_sg_sg_sg_sa_sa_sg_sg_sc_st_sg_sg_sg_st_sg$
561	51	ACATTGCTAAGGGGCC	~~51A~~ 344	$A_sC_sA_sT_st_sg_sc_st_sa_sa_sg_sg_sg_sG_sG_sC_sC$
			~~51B~~ 345	$A_sC_sA_sT_st_sg_sc_st_sa_sa_sg_sg_sg_sG_sG_sC_sc$
			~~51C~~ 346	$A_OC_OA_OT_Ot_sg_sc_st_sa_sa_sg_sg_sg_sG_OG_OC_OC$

			51D 347	$a_sc_sa_st_st_sg_sc_st_sa_sa_sg_sg_sg_sg_sc_sc$
577	52	GATCTCCTTTCCTAAG	52A 348	$G_sA_sT_sC_st_sc_sc_st_st_st_sc_sc_sT_sA_sA_sG$
			52B 349	$G_sA_sT_sC_st_sc_sc_st_st_st_sc_sc_sT_sA_sA_sg$
			52C 350	$G_OA_OT_OC_Ot_sc_sc_st_st_st_sc_sc_sT_OA_OA_OG$
			52D 351	$g_sa_st_sc_st_sc_sc_st_st_st_sc_sc_st_sa_sa_sg$
593	53	CTAATTTGAAAATGTT	53A 352	$C_sT_sA_sA_st_st_st_sg_sa_sa_sa_sa_sT_sG_sT_sT$
			53B 353	$C_sT_sA_sA_st_st_st_sg_sa_sa_sa_sa_sT_sG_sT_st$
			53C 354	$C_OT_OA_OA_Ot_st_st_sg_sa_sa_sa_sa_sT_OG_OT_OT$
			53D 355	$c_st_sa_sa_st_st_st_sg_sa_sa_sa_sa_st_sg_st_st$
609	54	AGCACAGTTGAAACAT	54A 356	$A_sG_sC_sA_sc_sa_sg_st_st_sg_sa_sa_sa_sA_sC_sA_sT$
			54B 357	$A_sG_sC_sA_sc_sa_sg_st_st_sg_sa_sa_sa_sA_sC_sA_st$
			54C 358	$A_OG_OC_OA_Oc_sa_sg_st_st_sg_sa_sa_sa_sA_OC_OA_OT$
			54D 359	$a_sg_sc_sa_sc_sa_sg_st_st_sg_sa_sa_sa_sc_sa_st$
625	55	TTCAAGACAAAACAGG	55A 360	$T_sT_sC_sA_sa_sg_sa_sc_sa_sa_sa_sa_sC_sA_sG_sG$
			55B 361	$T_sT_sC_sA_sa_sg_sa_sc_sa_sa_sa_sa_sC_sA_sG_sg$
			55C 362	$T_OT_OC_OA_Oa_sg_sa_sc_sa_sa_sa_sa_sC_OA_OG_OG$
			55D 363	$t_st_sc_sa_sa_sg_sa_sc_sa_sa_sa_sa_sc_sa_sg_sg$
641	56	CACCTCTGGTGCCACT	56A 364	$C_sA_sC_sC_st_sc_st_sg_sg_st_sg_sc_sC_sA_sC_sT$
			56B 365	$C_sA_sC_sC_st_sc_st_sg_sg_st_sg_sc_sC_sA_sC_st$

			~~56C~~ 366	$C_OA_OC_OC_Ot_sc_st_sg_sg_sg_st_sg_sc_sC_OA_OC_OT$
			~~56D~~ 367	$c_sa_sc_sc_st_sc_st_sg_sg_sg_st_sg_sc_sc_sa_sc_st$
657	57	GCTGCACAGGCAGAAG	~~57A~~ 368	$G_sC_sT_sG_sc_sa_sc_sa_sg_sg_sg_sc_sa_sG_sA_sA_sG$
			~~57B~~ 369	$G_sC_sT_sG_sc_sa_sc_sa_sg_sg_sg_sc_sa_sG_sA_sA_sg$
			~~57C~~ 370	$G_OC_OT_OG_Oc_sa_sc_sa_sg_sg_sc_sa_sG_OA_OA_OG$
			~~57D~~ 371	$g_sc_st_sg_sc_sa_sc_sa_sg_sg_sg_sc_sa_sg_sa_sa_sg$
673	58	GTTACCAGCAGCACCC	~~58A~~ 372	$G_sT_sT_sA_sc_sc_sa_sg_sc_sa_sg_sc_sA_sC_sC_sC$
			~~58B~~ 373	$G_sT_sT_sA_sc_sc_sa_sg_sc_sa_sg_sc_sA_sC_sC_sc$
			~~58C~~ 374	$G_OT_OT_OA_Oc_sc_sa_sg_sc_sa_sg_sc_sA_OC_OC_OC$
			~~58D~~ 375	$g_st_st_sa_sc_sc_sa_sg_sc_sa_sg_sc_sa_sc_sc_sc$
689	59	GAGAGAAGCAGCCACT	~~59A~~ 376	$G_sA_sG_sA_sg_sa_sa_sg_sc_sa_sg_sc_sC_sA_sC_sT$
			~~59B~~ 377	$G_sA_sG_sA_sg_sa_sa_sg_sc_sa_sg_sc_sC_sA_sC_st$
			~~59C~~ 378	$G_OA_OG_OA_Og_sa_sa_sg_sc_sa_sg_sc_sC_OA_OC_OT$
			~~59D~~ 379	$g_sa_sg_sa_sg_sa_sa_sg_sc_sa_sg_sc_sc_sa_sc_st$
705	60	AAAAAAGAGAGAGAGA	~~60A~~ 380	$A_sA_sA_sA_sa_sa_sg_sa_sg_sa_sg_sa_sG_sA_sG_sA$
			~~60B~~ 381	$A_sA_sA_sA_sa_sa_sg_sa_sg_sa_sg_sa_sG_sA_sG_sa$
			~~60C~~ 382	$A_OA_OA_OA_Oa_sa_sg_sa_sg_sa_sg_sa_sG_OA_OG_OA$
			~~60D~~ 383	$a_sa_sa_sa_sa_sa_sg_sa_sg_sa_sg_sa_sg_sa_sg_sa$
721	61	GCAAAAATGAGCCCCC	~~61A~~ 384	$G_sC_sA_sA_sa_sa_sa_st_sg_sa_sg_sc_sC_sC_sC_sC_sC$

			61B 385	$G_sC_sA_sA_sa_sa_sa_st_sg_sa_sg_sc_sC_sC_sC_sc$
			61C 386	$G_OC_OA_OA_Oa_sa_sa_st_sg_sa_sg_sc_sC_OC_OC_OC$
			61D 387	$g_sc_sa_sa_sa_sa_sa_st_sg_sa_sg_sc_sc_sc_sc_sc$
737	62	CCCGGGAATCAAAACA	62A 388	$C_sC_sC_sG_sg_sg_sa_sa_st_sc_sa_sa_sA_sA_sC_sA$
			62B 389	$C_sC_sC_sG_sg_sg_sa_sa_st_sc_sa_sa_sA_sA_sC_sa$
			62C 390	$C_OC_OC_OG_Og_sg_sa_sa_st_sc_sa_sa_sA_OA_OC_OA$
			62D 391	$c_sc_sc_sg_sg_sg_sa_sa_st_sc_sa_sa_sa_sa_sc_sa$
753	63	CTTCTCACCTGGTAAG	63A 392	$C_sT_sT_sC_st_sc_sa_sc_sc_st_sg_sg_sT_sA_sA_sG$
			63B 393	$C_sT_sT_sC_st_sc_sa_sc_sc_st_sg_sg_sT_sA_sA_sg$
			63C 394	$C_OT_OT_OC_Ot_sc_sa_sc_sc_st_sg_sg_sT_OA_OA_OG$
			63D 395	$c_st_st_sc_st_sc_sa_sc_sc_st_sg_sg_st_sa_sa_sg$
769	64	CCTTCTTCCTCCCTCA	64A 396	$C_sC_sT_sT_sc_st_st_sc_sc_st_sc_sc_sC_sT_sC_sA$
			64B 397	$C_sC_sT_sT_sc_st_st_sc_sc_st_sc_sc_sC_sT_sC_sa$
			64C 398	$C_OC_OT_OT_Oc_st_st_sc_sc_st_sc_sc_sC_OT_OC_OA$
			64D 399	$c_sc_st_st_sc_st_st_sc_sc_st_sc_sc_sc_st_sc_sa$
785	65	AGCAAAAGGGACACTG	65A 400	$A_sG_sC_sA_sa_sa_sa_sg_sg_sg_sa_sc_sA_sC_sT_sG$
			65B 401	$A_sG_sC_sA_sa_sa_sa_sg_sg_sg_sa_sc_sA_sC_sT_sg$
			65C 402	$A_OG_OC_OA_Oa_sa_sa_sg_sg_sg_sa_sc_sA_OC_OT_OG$
			65D 403	$a_sg_sc_sa_sa_sa_sa_sa_sg_sg_sg_sa_sc_sa_sc_st_sg$

801	66	CAAAGCTGTCAGCTCT	~~66A~~ <u>404</u>	$C_sA_sA_sA_sg_sc_st_sg_st_sc_sa_sg_sC_sT_sC_sT$
			~~66B~~ <u>405</u>	$C_sA_sA_sA_sg_sc_st_sg_st_sc_sa_sg_sC_sT_sC_st$
			~~66C~~ <u>406</u>	$C_OA_OA_OA_Og_sc_st_sg_st_sc_sa_sg_sC_OT_OC_OT$
			~~66D~~ <u>407</u>	$c_sa_sa_sa_sg_sc_st_sg_st_sc_sa_sg_sc_st_sc_st$
817	67	GCTCTGCCCACGCGAA	~~67A~~ <u>408</u>	$G_sC_sT_sC_st_sg_sc_sc_sc_sa_sc_sg_sC_sG_sA_sA$
			~~67B~~ <u>409</u>	$G_sC_sT_sC_st_sg_sc_sc_sc_sa_sc_sg_sC_sG_sA_sa$
			~~67C~~ <u>410</u>	$G_OC_OT_OC_Ot_sg_sc_sc_sc_sa_sc_sg_sC_OG_OA_OA$
			~~67D~~ <u>411</u>	$g_sc_st_sc_st_sg_sc_sc_sc_sa_sc_sg_sc_sg_sa_sa$
833	68	ACATTCACTGTGGAAG	~~68A~~ <u>412</u>	$A_sC_sA_sT_st_sc_sa_sc_st_sg_st_sg_sG_sA_sA_sG$
			~~68B~~ <u>413</u>	$A_sC_sA_sT_st_sc_sa_sc_st_sg_st_sg_sG_sA_sA_sg$
			~~68C~~ <u>414</u>	$A_OC_OA_OT_Ot_sc_sa_sc_st_sg_st_sg_sG_OA_OA_OG$
			~~68D~~ <u>415</u>	$a_sc_sa_st_st_sc_sa_sc_st_sg_st_sg_sg_sa_sa_sg$
849	69	AACATGAGGTCCAGAC	~~69A~~ <u>416</u>	$A_sA_sC_sA_st_sg_sa_sg_sg_st_sc_sc_sc_sA_sG_sA_sC$
			~~69B~~ <u>417</u>	$A_sA_sC_sA_st_sg_sa_sg_sg_st_sc_sc_sc_sA_sG_sA_sc$
			~~69C~~ <u>418</u>	$A_OA_OC_OA_Ot_sg_sa_sg_sg_st_sc_sc_sc_sA_OG_OA_OC$
			~~69D~~ <u>419</u>	$a_sa_sc_sa_st_sg_sa_sg_sg_st_sc_sc_sc_sa_sg_sa_sc$
865	70	CTGTGACAGCCTCAAC	~~70A~~ <u>420</u>	$C_sT_sG_sT_sg_sa_sc_sa_sg_sc_sc_st_sC_sA_sA_sC$
			~~70B~~ <u>421</u>	$C_sT_sG_sT_sg_sa_sc_sa_sg_sc_sc_st_sC_sA_sA_sc$
			~~70C~~ <u>422</u>	$C_OT_OG_OT_Og_sa_sc_sa_sg_sc_sc_st_sC_OA_OA_OC$

			~~70D~~ __423__	$c_s t_s g_s t_s g_s a_s c_s a_s g_s c_s c_s t_s c_s a_s a_s c$
881	71	AAGTCCACACTCAGGA	~~71A~~ __424__	$A_s A_s G_s T_s c_s c_s a_s c_s a_s c_s t_s c_s A_s G_s G_s A$
			~~71B~~ __425__	$A_s A_s G_s T_s c_s c_s a_s c_s a_s c_s t_s c_s A_s G_s G_s a$
			~~71C~~ __426__	$A_O A_O G_O T_O c_s c_s a_s c_s a_s c_s t_s c_s A_O G_O G_O A$
			~~71D~~ __427__	$a_s a_s g_s t_s c_s c_s a_s c_s a_s c_s t_s c_s a_s g_s g_s a$
897	72	TCAACAGGCACCTGCC	~~72A~~ __428__	$T_s C_s A_s A_s c_s a_s g_s g_s c_s a_s c_s c_s T_s G_s C_s C$
			~~72B~~ __429__	$T_s C_s A_s A_s c_s a_s g_s g_s c_s a_s c_s c_s T_s G_s C_s c$
			~~72C~~ __430__	$T_O C_O A_O A_O c_s a_s g_s g_s c_s a_s c_s c_s T_O G_O C_O C$
			~~72D~~ __431__	$t_s c_s a_s a_s c_s a_s g_s g_s c_s a_s c_s c_s t_s g_s c_s c$
913	73	AACCTGCAGCTCAGAT	~~73A~~ __432__	$A_s A_s C_s C_s t_s g_s c_s a_s g_s c_s t_s c_s A_s G_s A_s T$
			~~73B~~ __433__	$A_s A_s C_s C_s t_s g_s c_s a_s g_s c_s t_s c_s A_s G_s A_s t$
			~~73C~~ __434__	$A_O A_O C_O C_O t_s g_s c_s a_s g_s c_s t_s c_s A_O G_O A_O T$
			~~73D~~ __435__	$a_s a_s c_s c_s t_s g_s c_s a_s g_s c_s t_s c_s a_s g_s a_s t$
929	74	GGTGTGACAGATAAGG	~~74A~~ __436__	$G_s G_s T_s G_s t_s g_s a_s c_s a_s g_s a_s t_s A_s A_s G_s G$
			~~74B~~ __437__	$G_s G_s T_s G_s t_s g_s a_s c_s a_s g_s a_s t_s A_s A_s G_s g$
			~~74C~~ __438__	$G_O G_O T_O G_O t_s g_s a_s c_s a_s g_s a_s t_s A_O A_O G_O G$
			~~74D~~ __439__	$g_s g_s t_s g_s t_s g_s a_s c_s a_s g_s a_s t_s a_s a_s g_s g$
945	75	CCTCTGAGGAGGCACA	~~75A~~ __440__	$C_s C_s T_s C_s t_s g_s a_s g_s g_s a_s g_s g_s C_s A_s C_s A$
			~~75B~~ __441__	$C_s C_s T_s C_s t_s g_s a_s g_s g_s a_s g_s g_s C_s A_s C_s a$

			~~75C~~ **442**	$C_OC_OT_OC_O t_s g_s a_s g_s g_s a_s g_s g_s C_O A_O C_O A$
			~~75D~~ **443**	$c_s c_s t_s c_s t_s g_s a_s g_s g_s g_s a_s g_s g_s g_s c_s a_s c_s a$
961	76	ACAACAAAAAAACTGT	~~76A~~ **444**	$A_s C_s A_s A_s c_s a_s a_s a_s a_s a_s a_s a_s a_s C_s T_s G_s T$
			~~76B~~ **445**	$A_s C_s A_s A_s c_s a_s a_s a_s a_s a_s a_s a_s a_s C_s T_s G_s t$
			~~76C~~ **446**	$A_O C_O A_O A_O c_s a_s a_s a_s a_s a_s a_s a_s a_s C_O T_O G_O T$
			~~76D~~ **447**	$a_s c_s a_s a_s c_s a_s a_s a_s a_s a_s a_s a_s a_s c_s t_s g_s t$
977	77	AAAACAAAAAAACACA	~~77A~~ **448**	$A_s A_s A_s A_s c_s a_s a_s a_s a_s a_s a_s a_s a_s C_s A_s C_s A$
			~~77B~~ **449**	$A_s A_s A_s A_s c_s a_s a_s a_s a_s a_s a_s a_s a_s C_s A_s C_s a$
			~~77C~~ **450**	$A_O A_O A_O A_O c_s a_s a_s a_s a_s a_s a_s a_s a_s C_O A_O C_O A$
			~~77D~~ **451**	$a_s a_s a_s a_s c_s a_s a_s a_s a_s a_s a_s a_s a_s c_s a_s c_s a$
993	78	CATCTACCAAAAAAAA	~~78A~~ **452**	$C_s A_s T_s C_s t_s a_s c_s c_s a_s a_s a_s a_s A_s A_s A_s A$
			~~78B~~ **453**	$C_s A_s T_s C_s t_s a_s c_s c_s a_s a_s a_s a_s A_s A_s A_s a$
			~~78C~~ **454**	$C_O A_O T_O C_O t_s a_s c_s c_s a_s a_s a_s a_s A_O A_O A_O A$
			~~78D~~ **455**	$c_s a_s t_s c_s t_s a_s c_s c_s a_s a_s a_s a_s a_s a_s a_s a$
1009	79	TCACACACAAGTCATG	~~79A~~ **456**	$T_s C_s A_s C_s a_s c_s a_s c_s a_s a_s g_s t_s C_s A_s T_s G$
			~~79B~~ **457**	$T_s C_s A_s C_s a_s c_s a_s c_s a_s a_s g_s t_s C_s A_s T_s g$
			~~79C~~ **458**	$T_O C_O A_O C_O a_s c_s a_s c_s a_s a_s g_s t_s C_O A_O T_O G$
			~~79D~~ **459**	$t_s c_s a_s c_s a_s c_s a_s c_s a_s a_s g_s t_s c_s a_s t_s g$
1025	80	TGTCTCCATTCTCTCA	~~80A~~ **460**	$T_s G_s T_s C_s t_s c_s c_s a_s t_s t_s c_s t_s C_s T_s C_s A$

			~~80B~~ <u>461</u>	$T_sG_sT_sC_st_sc_sc_sa_st_st_sc_st_sC_sT_sC_s$a
			~~80C~~ <u>462</u>	$T_OG_OT_OC_Ot_sc_sc_sa_st_st_sc_st_sC_OT_OC_O{}^A$
			~~80D~~ <u>463</u>	$t_sg_st_sc_st_sc_sc_sa_st_st_sc_st_sc_st_sc_s$a
1041	81	GAGGAGCCAGGGACTC	~~81A~~ <u>464</u>	$G_sA_sG_sG_sa_sg_sc_sc_sa_sg_sg_sg_sg_sA_sC_sT_s$C
			~~81B~~ <u>465</u>	$G_sA_sG_sG_sa_sg_sc_sc_sa_sg_sg_sg_sg_sA_sC_sT_s$c
			~~81C~~ <u>466</u>	$G_OA_OG_OG_Oa_sg_sc_sc_sa_sg_sg_sg_sA_OC_OT_O$C
			~~81D~~ <u>467</u>	$g_sa_sg_sg_sa_sg_sc_sc_sa_sg_sg_sg_sg_sa_sc_st_s$c
1057	82	ATGTTGTTAAACAGTA	~~82A~~ <u>468</u>	$A_sT_sG_sT_st_sg_st_st_sa_sa_sa_sc_sA_sG_sT_s$A
			~~82B~~ <u>469</u>	$A_sT_sG_sT_st_sg_st_st_sa_sa_sa_sc_sA_sG_sT_s$a
			~~82C~~ <u>470</u>	$A_OT_OG_OT_Ot_sg_st_st_sa_sa_sa_sc_sA_OG_OT_O{}^A$
			~~82D~~ <u>471</u>	$a_st_sg_st_st_sg_st_st_sa_sa_sa_sc_sa_sg_st_s$a
1073	83	ACAAAATAAGAAAGCC	~~83A~~ <u>472</u>	$A_sC_sA_sA_sa_sa_st_sa_sa_sg_sa_sa_sA_sG_sC_s$C
			~~83B~~ <u>473</u>	$A_sC_sA_sA_sa_sa_st_sa_sa_sg_sa_sa_sA_sG_sC_s$c
			~~83C~~ <u>474</u>	$A_OC_OA_OA_Oa_sa_st_sa_sa_sg_sa_sa_sA_OG_OC_O$C
			~~83D~~ <u>475</u>	$a_sc_sa_sa_sa_sa_st_sa_sa_sg_sa_sa_sa_sg_sc_s$c
1089	84	TGAATTAACAATTCAA	~~84A~~ <u>476</u>	$T_sG_sA_sA_st_st_sa_sa_sc_sa_sa_st_sT_sC_sA_s$A
			~~84B~~ <u>477</u>	$T_sG_sA_sA_st_st_sa_sa_sc_sa_sa_st_sT_sC_sA_s$a
			~~84C~~ <u>478</u>	$T_OG_OA_OA_Ot_st_sa_sa_sc_sa_sa_st_sT_OC_OA_O{}^A$
			~~84D~~ <u>479</u>	$t_sg_sa_sa_st_st_sa_sa_sc_sa_sa_st_st_sc_sa_s$a

1105	85	AGTTTGTGCTATTCTG	~~85A~~ __480__	$A_sG_sT_sT_st_sg_st_sg_sc_st_sa_st_sT_sC_sT_sG$
			~~85B~~ __481__	$A_sG_sT_sT_st_sg_st_sg_sc_st_sa_st_sT_sC_sT_sg$
			~~85C~~ __482__	$A_OG_OT_OT_Ot_sg_st_sg_sc_st_sa_st_sT_OC_OT_OG$
			~~85D~~ __483__	$a_sg_st_st_st_sg_st_sg_sc_st_sa_st_st_sc_st_sg$
1121	86	GCTTAGTTTTAATTGT	~~86A~~ __484__	$G_sC_sT_sT_sa_sg_st_st_st_st_sa_sa_sT_sT_sG_sT$
			~~86B~~ __485__	$G_sC_sT_sT_sa_sg_st_st_st_st_sa_sa_sT_sT_sG_st$
			~~86C~~ __486__	$G_OC_OT_OT_Oa_sg_st_st_st_st_sa_sa_sT_OT_OG_OT$
			~~86D~~ __487__	$g_sc_st_st_sa_sg_st_st_st_st_sa_sa_st_st_sg_st$
1137	87	CTTAGAATGGCTTTGT	~~87A~~ __488__	$C_sT_sT_sA_sg_sa_sa_st_sg_sg_sc_st_sT_sT_sG_sT$
			~~87B~~ __489__	$C_sT_sT_sA_sg_sa_sa_st_sg_sg_sc_st_sT_sT_sG_st$
			~~87C~~ __490__	$C_OT_OT_OA_Og_sa_sa_st_sg_sg_sc_st_sT_OT_OG_OT$
			~~87D~~ __491__	$c_st_st_sa_sg_sa_sa_st_sg_sg_sc_st_st_st_sg_st$
1153	88	CCCGTTTCCCCAATGA	~~88A~~ __492__	$C_sC_sC_sG_st_st_st_sc_sc_sc_sc_sa_sA_sT_sG_sA$
			~~88B~~ __493__	$C_sC_sC_sG_st_st_st_sc_sc_sc_sc_sa_sA_sT_sG_sa$
			~~88C~~ __494__	$C_OC_OC_OG_Ot_st_st_sc_sc_sc_sc_sa_sA_OT_OG_OA$
			~~88D~~ __495__	$c_sc_sc_sg_st_st_st_sc_sc_sc_sc_sa_sa_st_sg_sa$
1169	89	TCCACCTGAAGTTCAC	~~89A~~ __496__	$T_sC_sC_sA_sc_sc_st_sg_sa_sa_sg_st_sT_sC_sA_sC$
			~~89B~~ __497__	$T_sC_sC_sA_sc_sc_st_sg_sa_sa_sg_st_sT_sC_sA_sc$
			~~89C~~ __498__	$T_OC_OC_OA_Oc_sc_st_sg_sa_sa_sg_st_sT_OC_OA_OC$

			~~89D~~ __499__	$t_sc_sc_sa_sc_sc_st_sg_sa_sa_sg_st_st_sc_sa_sc$
1185	90	CTATTCTGTCTCCTCA	~~90A~~ __500__	$C_sT_sA_sT_st_sc_st_sg_st_sc_st_sc_sc_sC_sT_sC_sA$
			~~90B~~ __501__	$C_sT_sA_sT_st_sc_st_sg_st_sc_st_sc_sc_sC_sT_sC_sa$
			~~90C~~ __502__	$C_OT_OA_OT_Ot_sc_st_sg_st_sc_st_sc_sc_sC_OT_OC_OA$
			~~90D~~ __503__	$c_st_sa_st_st_sc_st_sg_st_sc_st_sc_sc_sc_st_sc_sa$
1201	91	GACGCTTCCTATCACT	~~91A~~ __504__	$G_sA_sC_sG_sc_st_st_sc_sc_st_sa_st_sC_sA_sC_sT$
			~~91B~~ __505__	$G_sA_sC_sG_sc_st_st_sc_sc_st_sa_st_sC_sA_sC_st$
			~~91C~~ __506__	$G_OA_OC_OG_Oc_st_st_sc_sc_st_sa_st_sC_OA_OC_OT$
			~~91D~~ __507__	$g_sa_sc_sg_sc_st_st_sc_sc_st_sa_st_sc_sa_sc_st$
1217	92	AAAGGAGTATCTGCCA	~~92A~~ __508__	$A_sA_sA_sG_sg_sa_sg_st_sa_st_sc_st_sG_sC_sC_sA$
			~~92B~~ __509__	$A_sA_sA_sG_sg_sa_sg_st_sa_st_sc_st_sG_sC_sC_sa$
			~~92C~~ __510__	$A_OA_OA_OG_Og_sa_sg_st_sa_st_sc_st_sG_OC_OC_OA$
			~~92D~~ __511__	$a_sa_sa_sg_sg_sa_sg_st_sa_st_sc_st_sg_sc_sc_sa$
1233	93	TCACACAGCAGTGGCA	~~93A~~ __512__	$T_sC_sA_sC_sa_sc_sa_sg_sc_sa_sg_st_sG_sG_sC_sA$
			~~93B~~ __513__	$T_sC_sA_sC_sa_sc_sa_sg_sc_sa_sg_st_sG_sG_sC_sa$
			~~93C~~ __514__	$T_OC_OA_OC_Oa_sc_sa_sg_sc_sa_sg_st_sG_OG_OC_OA$
			~~93D~~ __515__	$t_sc_sa_sc_sa_sc_sa_sg_sc_sa_sg_st_sg_sg_sc_sa$
1249	94	CACTGGGCCTGTCTAA	~~94A~~ __516__	$C_sA_sC_sT_sg_sg_sg_sc_sc_st_sg_st_sC_sT_sA_sA$
			~~94B~~ __517__	$C_sA_sC_sT_sg_sg_sg_sc_sc_st_sg_st_sC_sT_sA_sa$

			94C 518	$C_OA_OC_OT_Og_sg_sg_sc_sc_st_sg_st_sC_OT_OA_OA$
			94D 519	$c_sa_sc_st_sg_sg_sg_sg_sc_sc_st_sg_st_sc_st_sa_sa$
1265	95	CATGTGCCCCGCGGCT	95A 520	$C_sA_sT_sG_st_sg_sc_sc_sc_sc_sg_sc_sG_sG_sC_sT$
			95B 521	$C_sA_sT_sG_st_sg_sc_sc_sc_sc_sg_sc_sG_sG_sC_st$
			95C 522	$C_OA_OT_OG_Ot_sg_sc_sc_sc_sc_sg_sc_sG_OG_OC_OT$
			95D 523	$c_sa_st_sg_st_sg_sc_sc_sc_sc_sg_sc_sg_sg_sc_st$
1281	96	AGGGAGGAGCGGCCAG	96A 524	$A_sG_sG_sG_sa_sg_sg_sg_sa_sg_sc_sg_sg_sg_sC_sC_sA_sG$
			96B 525	$A_sG_sG_sG_sa_sg_sg_sg_sa_sg_sc_sg_sg_sg_sC_sC_sA_sg$
			96C 526	$A_OG_OG_OG_Oa_sg_sg_sg_sa_sg_sc_sg_sg_sg_sC_OC_OA_OG$
			96D 527	$a_sg_sg_sg_sg_sa_sg_sg_sg_sa_sg_sc_sg_sg_sg_sc_sc_sa_sg$
1297	97	CCACTGCCTTTTTCTG	97A 528	$C_sC_sA_sC_st_sg_sc_sc_st_st_st_st_st_sT_sC_sT_sG$
			97B 529	$C_sC_sA_sC_st_sg_sc_sc_st_st_st_st_st_sT_sC_sT_sg$
			97C 530	$C_OC_OA_OC_Ot_sg_sc_sc_st_st_st_st_st_sT_OC_OT_OG$
			97D 531	$c_sc_sa_sc_st_sg_sc_sc_st_st_st_st_st_sc_st_sg$
1313	98	TTAAAAGGATTTAGG	98A 532	$T_sT_sA_sA_sa_sa_sa_sa_sg_sg_sg_sa_st_st_sT_sA_sG_sG$
			98B 533	$T_sT_sA_sA_sa_sa_sa_sa_sg_sg_sg_sa_st_st_sT_sA_sG_sg$
			98C 534	$T_OT_OA_OA_Oa_sa_sa_sg_sg_sg_sa_st_st_sT_OA_OG_OG$
			98D 535	$t_st_sa_sa_sa_sa_sa_sg_sg_sg_sa_st_st_sa_sg_sg$
1329	99	CATCGAGCCAAGTCAT	99A 536	$C_sA_sT_sC_sg_sa_sg_sc_sc_sa_sa_sg_sT_sC_sA_sT$

			~~99B~~ 537	$C_sA_sT_sC_sg_sa_sg_sc_sc_sa_sa_sg_sT_sC_sA_st$
			~~99C~~ 538	$C_OA_OT_OC_Og_sa_sg_sc_sc_sa_sa_sg_sT_OC_OA_OT$
			~~99D~~ 539	$c_sa_st_sc_sg_sa_sg_sc_sc_sa_sa_sg_st_sc_sa_st$
1345	100	AGCCAGTCCCCCACAG	~~100A~~ 540	$A_sG_sC_sC_sa_sg_st_sc_sc_sc_sc_sc_sA_sC_sA_sG$
			~~100B~~ 541	$A_sG_sC_sC_sa_sg_st_sc_sc_sc_sc_sc_sA_sC_sA_sg$
			~~100C~~ 542	$A_OG_OC_OC_Oa_sg_st_sc_sc_sc_sc_sc_sA_OC_OA_OG$
			~~100D~~ 543	$a_sg_sc_sc_sa_sg_st_sc_sc_sc_sc_sc_sa_sc_sa_sg$
1361	101	CGGCCTGCAGCAGCCC	~~101A~~ 544	$C_sG_sG_sC_sc_st_sg_sc_sa_sg_sc_sa_sG_sC_sC_sC$
			~~101B~~ 545	$C_sG_sG_sC_sc_st_sg_sc_sa_sg_sc_sa_sG_sC_sC_sc$
			~~101C~~ 546	$C_OG_OG_OC_Oc_st_sg_sc_sa_sg_sc_sa_sG_OC_OC_OC$
			~~101D~~ 547	$c_sg_sg_sc_sc_st_sg_sc_sa_sg_sc_sa_sg_sc_sc_sc$
1377	102	TGGGCTGACAGACACA	~~102A~~ 548	$T_sG_sG_sG_sc_st_sg_sa_sc_sa_sg_sa_sC_sA_sC_sA$
			~~102B~~ 549	$T_sG_sG_sG_sc_st_sg_sa_sc_sa_sg_sa_sC_sA_sC_sa$
			~~102C~~ 550	$T_OG_OG_OG_Oc_st_sg_sa_sc_sa_sg_sa_sC_OA_OC_OA$
			~~102D~~ 551	$t_sg_sg_sg_sc_st_sg_sa_sc_sa_sg_sa_sc_sa_sc_sa$
1393	103	TGACAGATGTGAAGGT	~~103A~~ 552	$T_sG_sA_sC_sa_sg_sa_st_sg_st_sg_sa_sA_sG_sG_sT$

			~~103B~~ 553	$T_sG_sA_sC_sa_sg_sa_st_sg_st_sg_sa_sA_sG_sG_st$
			~~103C~~ 554	$T_OG_OA_OC_Oa_sg_sa_st_sg_st_sg_sa_sA_OG_OG_OT$
			~~103 D~~ 555	$t_sg_sa_sc_sa_sg_sa_st_sg_st_sg_sa_sa_sg_sg_st$
1409	104	CCCCGTGTGGAGAACG	~~104 A~~ 556	$C_sC_sC_sC_sg_st_sg_st_sg_sg_sa_sg_sA_sA_sC_sG$
			~~104B~~ 557	$C_sC_sC_sC_sg_st_sg_st_sg_sg_sa_sg_sA_sA_sC_sg$
			~~1004 C~~ 558	$C_OC_OC_OC_Og_st_sg_st_sg_sg_sa_sg_sA_OA_OC_OG$
			~~104 D~~ 559	$c_sc_sc_sc_sg_st_sg_st_sg_sg_sa_sg_sa_sa_sc_sg$
1425	105	GCGGACTGCGTCTCTC	~~105 A~~ 560	$G_sC_sG_sG_sa_sc_st_sg_sc_sg_st_sc_sT_sC_sT_sC$
			~~105B~~ 561	$G_sC_sG_sG_sa_sc_st_sg_sc_sg_st_sc_sT_sC_sT_sc$
			~~105C~~ 562	$G_OC_OG_OG_Oa_sc_st_sg_sc_sg_st_sc_sT_OC_OT_OC$
			~~105 D~~ 563	$g_sc_sg_sg_sa_sc_st_sg_sc_sg_st_sc_st_sc_st_sc$
1441	106	GAAAGCGGGGACCTGG	~~106 A~~ 564	$G_sA_sA_sA_sg_sc_sg_sg_sg_sg_sa_sc_sC_sT_sG_sG$
			~~106B~~ 565	$G_sA_sA_sA_sg_sc_sg_sg_sg_sg_sa_sc_sC_sT_sG_sg$
			~~106C~~ 566	$G_OA_OA_OA_Og_sc_sg_sg_sg_sg_sa_sc_sC_OT_OG_OG$
			~~106 D~~ 567	$g_sa_sa_sa_sg_sc_sg_sg_sg_sg_sa_sc_sc_st_sg_sg$

1457	107	AGCTGCTGCCTCCAAA	~~107~~ A 568	$A_sG_sC_sT_sg_sc_st_sg_sc_sc_st_sc_sC_sA_sA_sA$
			~~107B~~ 569	$A_sG_sC_sT_sg_sc_st_sg_sc_sc_st_sc_sC_sA_sA_sa$
			~~107C~~ 570	$A_OG_OC_OT_Og_sc_st_sg_sc_sc_st_sc_sC_OA_OA_OA$
			~~107~~ D 571	$a_sg_sc_st_sg_sc_st_sg_sc_sc_st_sc_sc_sa_sa_sa$
1473	108	ACTTCAGCCCTGCGGG	~~108~~ A 572	$A_sC_sT_sT_sc_sa_sg_sc_sc_sc_st_sg_sC_sG_sG_sG$
			~~108B~~ 573	$A_sC_sT_sT_sc_sa_sg_sc_sc_sc_st_sg_sC_sG_sG_sg$
			~~108C~~ 574	$A_OC_OT_OT_Oc_sa_sg_sc_sc_sc_st_sg_sC_OG_OG_OG$
			~~108~~ D 575	$a_sc_st_st_sc_sa_sg_sc_sc_sc_st_sg_sc_sg_sg_sg$
1489	109	CATCATCTTACGCCAG	~~109~~ A 576	$C_sA_sT_sC_sa_st_sc_st_st_sa_sc_sg_sC_sC_sA_sG$
			~~109B~~ 577	$C_sA_sT_sC_sa_st_sc_st_st_sa_sc_sg_sC_sC_sA_sg$
			~~109C~~ 578	$C_OA_OT_OC_Oa_st_sc_st_st_sa_sc_sg_sC_OC_OA_OG$
			~~109~~ D 579	$c_sa_st_sc_sa_st_sc_st_st_sa_sc_sg_sc_sc_sa_sg$
1505	110	GAGGGCGAATCAAATC	~~110~~ A 580	$G_sA_sG_sG_sg_sc_sg_sa_sa_st_sc_sa_sA_sA_sT_sC$
			~~110B~~ 581	$G_sA_sG_sG_sg_sc_sg_sa_sa_st_sc_sa_sA_sA_sT_sc$
			~~110C~~ 582	$G_OA_OG_OG_Og_sc_sg_sa_sa_st_sc_sa_sA_OA_OT_OC$
			~~110~~ D 583	$g_sa_sg_sg_sg_sc_sg_sa_sa_st_sc_sa_sa_sa_st_sc$

1521	111	GCTCTATGACAGGGAG	~~111~~ A 584	$G_sC_sT_sC_st_sa_st_sg_sa_sc_sa_sg_sG_sG_sA_sG$
			~~111B~~ 585	$G_sC_sT_sC_st_sa_st_sg_sa_sc_sa_sg_sG_sG_sA_sg$
			~~111C~~ 586	$G_OC_OT_OC_Ot_sa_st_sg_sa_sc_sa_sg_sG_OG_OA_OG$
			~~111~~ D 587	$g_sc_st_sc_st_sa_st_sg_sa_sc_sa_sg_sg_sg_sa_sg$
1537	112	AACAATCCACCCTGCA	~~112~~ A 588	$A_sA_sC_sA_sa_st_sc_sc_sa_sc_sc_sc_sT_sG_sC_sA$
			~~112B~~ 589	$A_sA_sC_sA_sa_st_sc_sc_sa_sc_sc_sc_sT_sG_sC_sa$
			~~112C~~ 590	$A_OA_OC_OA_Oa_st_sc_sc_sa_sc_sc_sc_sT_OG_OC_OA$
			~~112~~ D 591	$a_sa_sc_sa_sa_st_sc_sc_sa_sc_sc_sc_st_sg_sc_sa$
1553	113	TTTCCAGCGAAGCTGT	~~113~~ A 592	$T_sT_sT_sC_sc_sa_sg_sc_sg_sa_sa_sg_sC_sT_sG_sT$
			~~113B~~ 593	$T_sT_sT_sC_sc_sa_sg_sc_sg_sa_sa_sg_sC_sT_sG_st$
			~~113C~~ 594	$T_OT_OT_OC_Oc_sa_sg_sc_sg_sa_sa_sg_sC_OT_OG_OT$
			~~113~~ D 595	$t_st_st_sc_sc_sa_sg_sc_sg_sa_sa_sg_sc_st_sg_st$
1569	114	AGATGACCTCCAGAGG	~~114~~ A 596	$A_sG_sA_sT_sg_sa_sc_sc_st_sc_sc_sa_sG_sA_sG_sG$
			~~114B~~ 597	$A_sG_sA_sT_sg_sa_sc_sc_st_sc_sc_sa_sG_sA_sG_sg$
			~~114C~~ 598	$A_OG_OA_OT_Og_sa_sc_sc_st_sc_sc_sa_sG_OA_OG_OG$
			~~114~~ D 599	$a_sg_sa_st_sg_sa_sc_sc_st_sc_sc_sa_sg_sa_sg_sg$

Target site	SeqID	Oligomeric compound Sequence	SeqID+Design NO	Specific design
1585	115	TTCTCAGGAACAGCCG	115A 600	$T_sT_sC_sT_sc_sa_sg_sg_sg_sa_sa_sc_sa_sG_sC_sC_sG$
			115B 601	$T_sT_sC_sT_sc_sa_sg_sg_sg_sa_sa_sc_sa_sG_sC_sC_sg$
			115C 602	$T_OT_OC_OT_Oc_sa_sg_sg_sg_sa_sa_sc_sa_sG_OC_OC_OG$
			115D 603	$t_st_sc_st_sc_sa_sg_sg_sg_sa_sa_sc_sa_sg_sc_sc_sg$
1601	116	ATGACAGGCTTTTAT	116A 604	$A_sT_sG_sA_sc_sa_sg_sg_sc_sc_st_st_st_sT_sT_sA_sT$
			116B 605	$A_sT_sG_sA_sc_sa_sg_sg_sc_sc_st_st_st_sT_sT_sA_st$
			116C 606	$A_OT_OG_OA_Oc_sa_sg_sg_sc_sc_st_st_st_sT_OT_OA_OT$
			116D 607	$a_st_sg_sa_sc_sa_sg_sg_sc_sc_st_st_st_st_st_sa_st$

Please amend Table 2 starting on page 84 as follows:

Table 2 Oligomeric compounds of the invention

Oligomeric compounds were evaluated for their potential to knockdown Survivin mRNA in 15PC3 cells. The data are presented as percentage downregulation relative to mock transfected cells. Transcript steady state was monitored by Real-time PCR and normalised to the GAPDH transcript steady state. Note that all LNA C are 5'-Methyl-Cytosine.

Target site	SeqID NO:	Oligomeric compound Sequence 5'-3'	SeqID+ Design NO:	Specific design of Oligomeric compound Capital letters β-D-oxy-LNA s=phosphorthioate O=-O-P(O)₂-O- Small letters DNA sugar	% Inhibi-tion at 25 nM	% Inhibi-tion at 5 nM oligo.
62(c)	117	AGGCAGGGGGCAACGT	117A 608	$A_sG_sG_sC_sa_sg_sg_sg_sg_sg_sg_sc_sa_sA_sC_sG_sT$	<20	<20
			117B	$A_sG_sG_sC_sa_sg_sg_sg_sg_sg_sg_sc_sa_sA_sC_sG_st$		

			~~609~~			
			~~117C~~ 610	A$_O$G$_O$G$_O$C$_O$a$_s$g$_s$g$_s$g$_s$g$_s$g$_s$c$_s$a$_s$A$_O$C$_O$G$_O$T		
			~~117D~~ 611	a$_s$g$_s$g$_s$c$_s$a$_s$g$_s$g$_s$g$_s$g$_s$g$_s$g$_s$c$_s$a$_s$a$_s$a$_s$c$_s$g$_s$t		
119(c)	118	CCAAGAAGGGCCAGTT	~~118A~~ 612	C$_s$C$_s$A$_s$A$_s$g$_s$a$_s$a$_s$g$_s$g$_s$g$_s$c$_s$c$_s$A$_s$G$_s$T$_s$T	87	33
			~~118B~~ 613	C$_s$C$_s$A$_s$A$_s$g$_s$a$_s$a$_s$g$_s$g$_s$g$_s$c$_s$c$_s$A$_s$G$_s$T$_s$t		
			~~118C~~ 614	C$_O$C$_O$A$_O$A$_O$g$_s$a$_s$a$_s$g$_s$g$_s$g$_s$c$_s$c$_s$A$_O$G$_O$T$_O$T		
			~~118D~~ 615	c$_s$c$_s$a$_s$a$_s$g$_s$a$_s$a$_s$g$_s$g$_s$g$_s$c$_s$c$_s$a$_s$g$_s$t$_s$t		
190(c)	119	TGGCTCGTTCTCAGTG	~~119A~~ 616	T$_s$G$_s$G$_s$C$_s$t$_s$c$_s$g$_s$t$_s$t$_s$c$_s$t$_s$c$_s$A$_s$G$_s$T$_s$G	79	27
			~~119B~~ 617	T$_s$G$_s$G$_s$C$_s$t$_s$c$_s$g$_s$t$_s$t$_s$c$_s$t$_s$c$_s$A$_s$G$_s$T$_s$g		
			~~119C~~ 618	T$_O$G$_O$G$_O$C$_O$t$_s$c$_s$g$_s$t$_s$t$_s$c$_s$t$_s$c$_s$A$_O$G$_O$T$_O$G		
			~~119D~~ 619	t$_s$g$_s$g$_s$c$_s$t$_s$c$_s$g$_s$t$_s$t$_s$c$_s$t$_s$c$_s$a$_s$g$_s$t$_s$g		
193(c)	120	GTCTGGCTCGTTCTCA	~~120A~~ 620	G$_s$T$_s$C$_s$T$_s$g$_s$g$_s$c$_s$t$_s$c$_s$g$_s$t$_s$t$_s$C$_s$T$_s$C$_s$A	84	47
			~~120B~~ 621	G$_s$T$_s$C$_s$T$_s$g$_s$g$_s$c$_s$t$_s$c$_s$g$_s$t$_s$t$_s$C$_s$T$_s$C$_s$a		
			~~120C~~ 622	G$_O$T$_O$C$_O$T$_O$g$_s$g$_s$c$_s$t$_s$c$_s$g$_s$t$_s$t$_s$C$_O$T$_O$C$_O$A		
			~~112D~~	g$_s$t$_s$c$_s$t$_s$g$_s$g$_s$c$_s$t$_s$c$_s$g$_s$t$_s$t$_s$c$_s$t$_s$c$_s$a		

			623			
194(c)	121	AGTCTGGCTCGTTCTC	~~121A~~ 624	$A_sG_sT_sC_st_sg_sg_sc_st_sc_sg_st_sT_sC_sT_sC$	75	49
			~~121B~~ 625	$A_sG_sT_sC_st_sg_sg_sc_st_sc_sg_st_sT_sC_sT_sc$		
			~~121C~~ 626	$A_OG_OT_OC_Ot_sg_sg_sc_st_sc_sg_st_sT_OC_OT_OC$		
			~~121D~~ 627	$a_sg_st_sc_st_sg_sg_sc_st_sc_sg_st_st_sc_st_sc$		
168(c)	122	TGGATGAAGCCAGCCT	~~122A~~ 628	$T_sG_sG_sA_st_sg_sa_sa_sg_sc_sc_sa_sG_sC_sC_sT$	67	41
			~~122B~~ 629	$T_sG_sG_sA_st_sg_sa_sa_sg_sc_sc_sa_sG_sC_sC_st$		
			~~122C~~ 630	$T_OG_OG_OA_Ot_sg_sa_sa_sg_sc_sc_sa_sG_OC_OC_OT$		
			~~122D~~ 631	$t_sg_sg_sa_st_sg_sa_sa_sg_sc_sc_sa_sg_sc_sc_st$		
215(c)	123	AGCAGAAGAAACACTG	~~123A~~ 632	$A_sG_sC_sA_sg_sa_sa_sg_sa_sa_sa_sc_sA_sC_sT_sG$	85	26
			~~123B~~ 633	$A_sG_sC_sA_sg_sa_sa_sg_sa_sa_sa_sc_sA_sC_sT_sg$		
			~~123C~~ 634	$A_OG_OC_OA_Og_sa_sa_sg_sa_sa_sa_sc_sA_OC_OT_OG$		
			~~123D~~ 635	$a_sg_sc_sa_sg_sa_sa_sg_sa_sa_sa_sc_sa_sc_st_sg$		
261(c)	124	TCCTCTATGGGGTCGT	~~124A~~ 636	$T_sC_sC_sT_sc_st_sa_st_sg_sg_sg_sg_sT_sC_sG_sT$	23	<20
			~~124B~~	$T_sC_sC_sT_sc_st_sa_st_sg_sg_sg_sg_sT_sC_sG_st$		

			637			
			~~124~~ C 638	$T_OC_OC_OT_O c_s t_s a_s g_s g_s g_s g_s T_OC_O G_OT$		
			~~124~~ D 639	$t_s c_s c_s t_s c_s t_s a_s t_s g_s g_s g_s g_s g_s t_s c_s g_s t$		
286(c)	125	GCAACCGGACGAATGC	~~125~~ A 640	$G_s C_s A_s A_s c_s c_s g_s g_s a_s c_s g_s a_s A_s T_s G_s C$	64	<20
			~~125~~ B 641	$G_s C_s A_s A_s c_s c_s g_s g_s a_s c_s g_s a_s A_s T_s G_s c$		
			~~125~~ C 642	$G_O C_O A_O A_O c_s c_s g_s g_s a_s c_s g_s a_s A_O T_O G_O C$		
			~~125~~ D 643	$g_s c_s a_s a_s c_s c_s g_s g_s a_s c_s g_s a_s a_s t_s g_s c$		
267(c)	126	TTATGTTCCTCTATGG	~~126~~ A 644	$T_s T_s A_s T_s g_s t_s t_s c_s c_s t_s c_s t_s A_s T_s G_s G$	53	<20
			~~126~~ B 645	$T_s T_s A_s T_s g_s t_s t_s c_s c_s t_s c_s t_s A_s T_s G_s g$		
			~~126~~ C 646	$T_O T_O A_O T_O g_s t_s t_s c_s c_s t_s c_s t_s A_O T_O G_O G$		
			~~126~~ D 647	$t_s t_s a_s t_s g_s t_s t_s c_s c_s t_s c_s t_s a_s t_s g_s g$		
325(c)	127	GGTTAATTCTTCAAAC	~~127~~ A 648	$G_s G_s T_s T_s a_s a_s t_s t_s c_s t_s t_s c_s A_s A_s A_s C$	17	<20
			~~127~~ B 649	$G_s G_s T_s T_s a_s a_s t_s t_s c_s t_s t_s c_s A_s A_s A_s c$		
			~~127~~ C 650	$G_O G_O T_O T_O a_s a_s t_s t_s c_s t_s t_s c_s A_O A_O A_O C$		
			~~127~~ D	$g_s g_s t_s t_s a_s a_s t_s t_s c_s t_s t_s c_s a_s a_s a_s c$		

			651			
353(c)	128	CTCTGTCCAGTTTCAA	~~128~~ A 652	$C_sT_sC_sT_sg_st_sc_sc_sa_sg_st_st_sT_sC_sA_sA$	76	60
			~~128~~ B 653	$C_sT_sC_sT_sg_st_sc_sc_sa_sg_st_st_sT_sC_sA_sa$	77	
			~~128~~ C 654	$C_OT_OC_OT_Og_st_sc_sc_sa_sg_st_st_sT_OC_OA_OA$		
			~~128~~ D 655	$c_st_sc_st_sg_st_sc_sc_sa_sg_st_st_st_sc_sa_sa$		
375(c)	129	GCAATTTGTTCTTGG	~~129~~ A 656	$G_sC_sA_sA_st_st_st_sg_st_st_sc_sT_sT_sG_sG$	73	49
			~~129~~ B 657	$G_sC_sA_sA_st_st_st_sg_st_st_sc_sT_sT_sG_sg$		
			~~129~~ C 658	$G_OC_OA_OA_Ot_st_st_sg_st_st_sc_sT_OT_OG_OG$		
			~~129~~ D 659	$g_sc_sa_sa_st_st_st_sg_st_st_sc_st_st_sg_sg$		
464(c)	130	CTCAATCCATGGCAGC	~~130~~ A 660	$C_sT_sC_sA_sa_st_sc_sc_sa_st_sg_sg_sC_sA_sG_sC$	77	40
			~~130~~ B 661	$C_sT_sC_sA_sa_st_sc_sc_sa_st_sg_sg_sC_sA_sG_sc$		
			~~130~~ C 662	$C_OT_OC_OA_Oa_st_sc_sc_sa_st_sg_sg_sC_OA_OG_OC$		
			~~130~~ D 663	$c_st_sc_sa_sa_st_sc_sc_sa_st_sg_sg_sc_sa_sg_sc$		
159(c)	131	CCAGCCTCGGCCATCC	~~131~~ A 664	$C_sC_sA_sG_sc_sc_st_sc_sg_sg_sc_sc_sA_sT_sC_sC$	80	29
			~~131~~ B	$C_sC_sA_sG_sc_sc_st_sc_sg_sg_sc_sc_sA_sT_sC_sc$	94	

			~~665~~			
			~~131 C~~ 666	$C_O C_O A_O G_O{}^{c_s c_s t_s c_s g_s g_s c_s c_s} A_O T_O C_O C$		
			~~131 D~~ 667	$c_s c_s a_s g_s c_s c_s t_s c_s g_s g_s c_s c_s a_s t_s c_s c$		
350(c)	132	TGTCCAGTTTCAAAAA	~~132 A~~ 668	$T_s G_s T_s C_s c_s a_s g_s t_s t_s t_s c_s a_s A_s A_s A_s A$	<20	<20
			~~132 B~~ 669	$T_s G_s T_s C_s c_s a_s g_s t_s t_s t_s c_s a_s A_s A_s A_s a$		
			~~132 C~~ 670	$T_O G_O T_O C_O{}^{c_s a_s g_s t_s t_s t_s c_s a_s} A_O A_O A_O A$		
			~~132 D~~ 671	$t_s g_s t_s c_s c_s a_s g_s t_s t_s t_s c_s a_s a_s a_s a_s a$		
351(c)	133	CTGTCCAGTTTCAAAA	~~133 A~~ 672	$C_s T_s G_s T_s c_s c_s a_s g_s t_s t_s t_s c_s A_s A_s A_s A$	<20	<20
			~~133 B~~ 673	$C_s T_s G_s T_s c_s c_s a_s g_s t_s t_s t_s c_s A_s A_s A_s a$		
			~~133 C~~ 674	$C_O T_O G_O T_O{}^{c_s c_s a_s g_s t_s t_s t_s c_s} A_O A_O A_O A$		
			~~133 D~~ 675	$c_s t_s g_s t_s c_s c_s a_s g_s t_s t_s t_s c_s a_s a_s a_s a$		
47(c)	134	TCGGGGCACCCATGCC	~~134 A~~ 676	$T_s C_s G_s G_s{}^{g_s g_s c_s a_s c_s c_s c_s a_s} T_s G_s C_s C$		
			~~134 B~~ 677	$T_s C_s G_s G_s{}^{g_s g_s c_s a_s c_s c_s c_s a_s} T_s G_s C_s c$		
			~~134 C~~ 678	$T_O C_O G_O G_O{}^{g_s g_s c_s a_s c_s c_s c_s a_s} T_O G_O C_O C$		
			~~134 D~~	$t_s c_s g_s g_s g_s g_s c_s a_s c_s c_s c_s a_s t_s g_s c_s c$		

			679	
456(c)	135	ATGGCAGCCAGCTGCT	~~135 A~~ 680	$A_sT_sG_sG_sc_sa_sg_sc_sc_sa_sg_sc_sT_sG_sC_s T$
			~~135 B~~ 681	$A_sT_sG_sG_sc_sa_sg_sc_sc_sa_sg_sc_sT_sG_sC_s t$
			~~135 C~~ 682	$A_OT_OG_OG_Oc_sa_sg_sc_sc_sa_sg_sc_sT_O G_OC_OT$
			~~135 D~~ 683	$a_st_sg_sg_sc_sa_sg_sc_sc_sa_sg_sc_st_sg_sc_st$
470(c)	136	AGAGGCCTCAATCCAT	~~136 A~~ 684	$A_sG_sA_sG_sg_sc_sc_st_sc_sa_sa_st_sC_sC_sA_s T$
			~~136 B~~ 685	$A_sG_sA_sG_sg_sc_sc_st_sc_sa_sa_st_sC_sC_sA_st$
			~~136 C~~ 686	$A_OG_OA_OG_Og_sc_sc_st_sc_sa_sa_st_sC_OC_OA_OT$
			~~136 D~~ 687	$a_sg_sa_sg_sg_sc_sc_st_sc_sa_sa_st_sc_sc_sa_st$
55(c)	137	GGGCAACGTCGGGGCA	~~137 A~~ 688	$G_sG_sG_sC_sa_sa_sc_sg_st_sc_sg_sg_sg_sG_sG_sC_s A$
			~~137 B~~ 689	$G_sG_sG_sC_sa_sa_sc_sg_st_sc_sg_sg_sg_sG_sG_sC_s a$
			~~137 C~~ 690	$G_OG_OG_OC_Oa_sa_sc_sg_st_sc_sg_sg_sg_sG_OG_OC_OA$
			~~137 D~~ 691	$g_sg_sg_sc_sa_sa_sc_sg_st_sc_sg_sg_sg_sg_sg_sc_sa$
66(c)	138	TGCCAGGCAGGGGGCA	~~138 A~~ 692	$T_sG_sC_sC_sa_sg_sg_sg_sc_sa_sg_sg_sg_sg_sG_sG_sC_s A$
			~~138 B~~	

			<u>693</u>	
			~~138C~~ <u>694</u>	$T_sG_sC_sC_s{}^a{}_sg_sg_sg_s{}^c{}_s{}^a{}_sg_sg_sg_sg_sG_sG_sC_sA$
			~~138D~~ <u>695</u>	${}^t{}_sg_s{}^c{}_s{}^c{}_s{}^a{}_sg_sg_sg_s{}^c{}_s{}^a{}_sg_sg_sg_sg_sg_sg_s{}^c{}_s{}^a$
140(c)	139	CCGGGGTGCAGGCGCA	~~139A~~ <u>696</u>	$C_sC_sG_sG_sg_sg_s{}^t{}_sg_s{}^c{}_s{}^a{}_sg_sg_sg_sC_sG_sC_sA$
			~~139B~~ <u>697</u>	$C_sC_sG_sG_sg_sg_s{}^t{}_sg_s{}^c{}_s{}^a{}_sg_sg_sg_sC_sG_sC_s{}^a$
			~~139C~~ <u>698</u>	$C_OC_OG_OG_Og_sg_s{}^t{}_sg_s{}^c{}_s{}^a{}_sg_sg_sg_sC_OG_OC_OA$
			~~139D~~ <u>699</u>	${}^c{}_s{}^c{}_sg_sg_sg_sg_sg_s{}^t{}_sg_s{}^c{}_s{}^a{}_sg_sg_sg_s{}^c{}_sg_s{}^c{}_s{}^a$
148(c)	140	CATCCGCTCCGGGGTG	~~140A~~ <u>700</u>	$C_sA_sT_sC_s{}^c{}_sg_s{}^c{}_s{}^t{}_s{}^c{}_s{}^c{}_sg_sg_sg_sG_sG_sT_sG$
			~~140B~~ <u>701</u>	$C_sA_sT_sC_s{}^c{}_sg_s{}^c{}_s{}^t{}_s{}^c{}_s{}^c{}_sg_sg_sg_sG_sG_sT_sg$
			~~140C~~ <u>702</u>	$C_OA_OT_OC_O{}^c{}_sg_s{}^c{}_s{}^t{}_s{}^c{}_s{}^c{}_sg_sg_sG_OG_OT_OG$
			~~140D~~ <u>703</u>	$C_sA_sT_sC_sC_sG_sC_sT_sC_sC_sG_sG_sG_sG_s{}^t{}_sG$
177(c)	141	GTGGGGCAGTGGATGA	~~141A~~ <u>704</u>	$G_sT_sG_sG_sg_sg_sg_s{}^c{}_s{}^a{}_sg_s{}^t{}_sg_sg_sg_sA_sT_sG_sA$
			~~141B~~ <u>705</u>	$G_sT_sG_sG_sg_sg_sg_s{}^c{}_s{}^a{}_sg_s{}^t{}_sg_sg_sg_sA_sT_sG_s{}^a$
			~~141C~~ <u>706</u>	$G_OT_OG_OG_Og_sg_s{}^c{}_s{}^a{}_sg_s{}^t{}_sg_sg_sg_sA_OT_OG_OA$
			~~141D~~	$g_s{}^t{}_sg_sg_sg_sg_sg_s{}^c{}_s{}^a{}_sg_s{}^t{}_sg_sg_sg_s{}^a{}_s{}^t{}_sg_s{}^a$

			707	
260(c)	142	CCTCTATGGGGTCGTC	~~142~~ A 708	$C_sC_sT_sC_st_sa_st_sg_sg_sg_sg_sg_st_sC_sG_sT_sC$
			~~142~~ ~~B~~ 709	$C_sC_sT_sC_st_sa_st_sg_sg_sg_sg_sg_st_sC_sG_sT_st$
			~~142~~ ~~C~~ 710	$C_OC_OT_OC_Ot_sa_st_sg_sg_sg_sg_sg_st_sC_OG_OT_OC$
			~~142~~ ~~D~~ 711	$c_sc_st_sc_st_sa_st_sg_sg_sg_sg_sg_st_sc_sg_st_sc$
274(c)	143	ATGCTTTTTATGTTCC	~~143~~ A 712	$A_sT_sG_sC_st_st_st_st_st_sa_st_sg_sT_sT_sC_sC$
			~~143~~ ~~B~~ 713	$A_sT_sG_sC_st_st_st_st_st_sa_st_sg_sT_sT_sC_st$
			~~143~~ ~~C~~ 714	$A_OT_OG_OC_Ot_st_st_st_st_sa_st_sg_sT_OT_OC_OC$
			~~143~~ ~~D~~ 715	$a_st_sg_sc_st_st_st_st_st_sa_st_sg_st_st_sc_sc$
384(c)	144	GTTTCCTTTGCAATTT	~~144~~ A 716	$G_sT_sT_sT_sc_sc_st_st_st_sg_sc_sa_sA_sT_sT_sT$
			~~144~~ ~~B~~ 717	$G_sT_sT_sT_sc_sc_st_st_st_sg_sc_sa_sA_sT_st$
			~~144~~ ~~C~~ 718	$G_OT_OT_OT_Oc_sc_st_st_st_sg_sc_sa_sA_OT_OT_OT$
			~~144~~ ~~D~~ 719	$g_st_st_st_sc_sc_st_st_st_sg_sc_sa_sa_st_st_st$
ISIS 23722	145	TGTGCTATTCTGTGAATT (18-mer)	~~145~~ A 720	$T_sG_sT_sG_sc_st_sa_st_sc_st_sg_st_sg_sA_sA_sT_sT$
			~~145~~ ~~C~~	$T_OG_OT_OG_sc_st_sa_st_sc_st_sg_st_sg_sA_OA_OT_OT$

Hansen et al.
USSN 10/776,934
Preliminary Amendment
Page -45-

			721	T_OT
			~~145 D~~ 722	$t_sg_st_sg_sc_st_sa_st_st_sc_st_sg_st_sg_sa_sa_st_st$
			~~145F~~ 723	$T_sG_sT_sG_sc_st_sa_st_st_sc_st_sg_st_sg_sA_sA_sT_sT$
	146		~~146 A~~ 724	$T_s\underline{A}_s\underline{A}_sG_sc_st_s\underline{g}_st_st_sc_st_s\underline{a}_st_sg_s\underline{T}_s\underline{G}_sT_sT*$
			~~146 C~~ 725	$T_O\underline{A}_O\underline{A}_OG_sc_st_s\underline{g}_st_st_sc_st_s\underline{a}_st_sg_s\underline{T}_O\underline{G}_OT_OT*$
			~~146F~~ 726	$T_s\underline{A}_s\underline{A}_sG_sc_st_s\underline{g}_st_st_sc_st_s\underline{a}_st_sg_s\underline{T}_s\underline{G}_sT_sT*$

* relates to compound Underlined indicates mismatch compared to above compound.
Compound 145F and 146F contains the MOE chemistry in capital letters italic which is the compound ISIS23722.

Please amend Table 3 starting on page 88 as follows:

Table 3 IC$_{50}$ (nM) of LNA (β-D-oxy-LNA) containing oligomeric in two cell lines of different origin

Oligomeric compounds were evaluated for their potential to knockdown Survivin mRNA in 15PC3 and MCF7 cells. Transcript steady state was monitored by Real-time PCR and normalised to the GAPDH transcript steady state.

Seq ID/design NO	MCF7	15PC3
2A 147	28	5
2B 148		<5
4A 155		<5
4B 156		5
6A 163	8	3
6B 164		<5
9A 175	11	3
15A 199	1	<1
15B 200		<1
15E 203		1
118A 612		<5
120A 620		<25
123A 623		<5
128A 652		<5
128B 653		<25
129A 656		<25
131A 664		<25
131B 665		<5

Please amend the paragraph on page 88, lines 14-15, as follows:

Compounds of particular interest are 2A, 2B, 4A, 4B, 6A, 6B, 15A, 15B, 15E, 119A, 119B, 121A, 121B, 128A, 128B, 130A, 130B, 131A and 131B. 147, 148, 155, 156, 163, 164, 199, 200, 203, 616, 617, 624, 625, 652, 653, 660, 661, 664, and 665.

Please amend the paragraph on page 95, lines 5-21, as follows:

Human 15PC3 xenografted tumors according to Example 13 were homogenized in 10
volumes of 0,5% Igepal CA-630, 25 mM Tris pH 8.0, 25 mM EDTA, 100 mM NaCl,
1mg/ml Proteinase K1 and incubated overnight at 37 degrees celsius followed by phenol-
chloroform extraction. The concentration of antisense oligonucleotide 2650 in the combined
aqueous phase was determined using a sequence specific ELISA assay. Two probes, one
labelled with biotin and one labelled with digoxigenin (DIG) with complementary sequences
to the antisense oligonucleotide are hybridised to the antisense oligo. The complex is captured
by immobilized streptavidin and quantified using a horse raddish peroxidase-conjugated anti-
digoxigenin antibody and standard ELISA procedures. Briefly, 10 nM DNA capture probe (
5′-aactgtgc-Biotin-3′) and 10 nM LNA detection probe (5'-DIG-GATGTTTCgatgtttc-
3')(SEQ ID NO: 738) were mixed with sample or standards in 1 % blocking reagent (Roche
cat. 1 096 176) in PBS. The probes were annealed to the oligo by heating the mixture to 70
degrees celsius and gradual cooling to 20 degrees Celsius. The mixture was transferred to
streptavidin-coated wells. The amount of captured DIG-probe is quantified using an HRP-
conjugated Anti-DIG antibody fragment (Roche) and standard ELISA procedures. At least
1,3µg/g tumours tissue of the oligomeric compound 15A was detected (data not adjusted for
recovery).